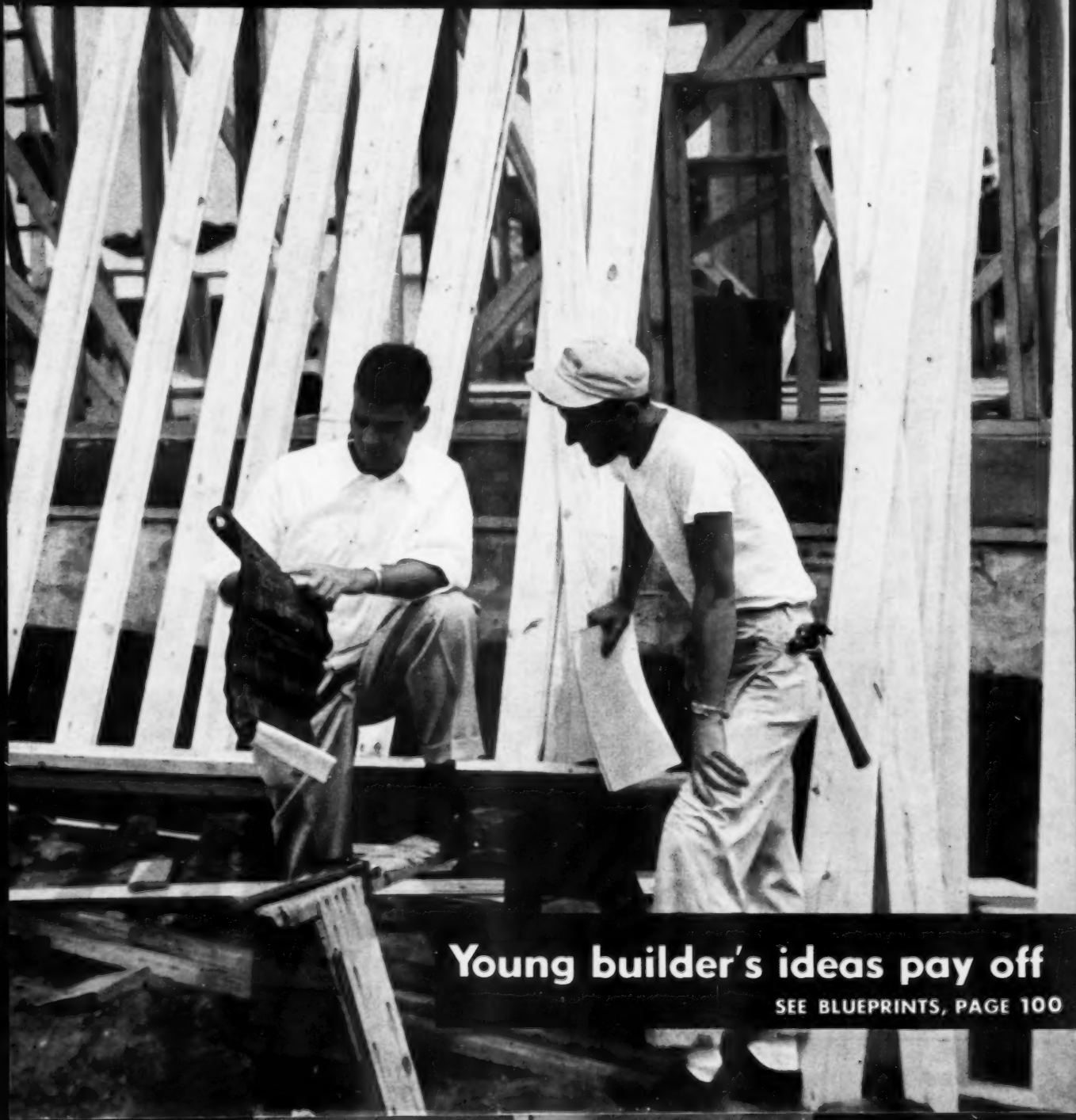


American Builder

 OCTOBER 1956 • 75 Cents

How winter building
can boost profits

•
HOUSEPOWER
cuts complaints



Young builder's ideas pay off

SEE BLUEPRINTS, PAGE 100

*The Kitchen Sells the Home... and the
NuTone Food Center Sells the Kitchen!*

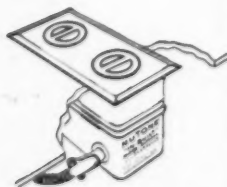
*Combination
Food Mixer,
Blender and
Sharpener*

ONE MOTOR
(below counter)
DOES ALL!

U.S. & FOREIGN PATENTS PENDING

NU-TONE

Built-In Food Center



Nothing excites a woman's enthusiasm more than a modern kitchen with Built-In Appliances to save work and space. That's why hundreds of builders say, "The NuTone Food Center is the best sales clincher we have ever seen!" It's so easy to install . . . just cut the kitchen counter top drop in the powerful motor unit . . . and it's ready to operate four full size appliances. It's fully guaranteed and the price is easy on your budget. Only \$69.95 list.

LIFE

See the exciting 2-page NuTone ad in Life, October 15 issue . . . Also Better Homes & Gardens, House Beautiful, House & Garden, McCall's, LIVING for Young Home Makers, Home Modernizing.

SAMPLE OFFER

Write for literature and Special Introductory Sample Offer for your Model Homes . . .

NUTONE, INC., Dept. AB-10, Cincinnati 27, Ohio

FOOD CENTER EXHAUST FANS RANGE HOODS DOOR CHIMES CEILING HEATERS



It's a LARGE FOOD MIXER

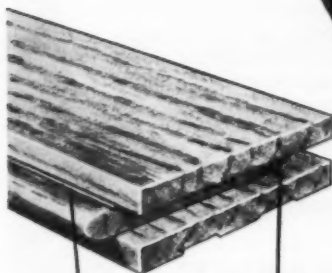


a 6-SPEED FOOD BLENDER



and KNIFE SHARPENER.

A TRIAL INSTALLATION
then...
ALWAYS USED!



SEE YOUR LOCAL LOCKWOOD DEALER

Get the oak flooring that's engineered to go down faster, fit snugly without requiring force, and requiring a minimum of sanding and finishing!

Cloud's Lockwood Oak Flooring is designed to save you builders plenty in labor costs. Find out for yourself what compartment, fan-type kiln-drying means... what snap side match design, the nail-groove feature, the splinter clipper and precision-milling mean in your operation!

Then notice how the beauty of Lockwood floors helps to sell homes on sight!

You'll certainly want to magnify profits and multiply sales when you've discovered the advantages of Cloud's Lockwood Oak Flooring!



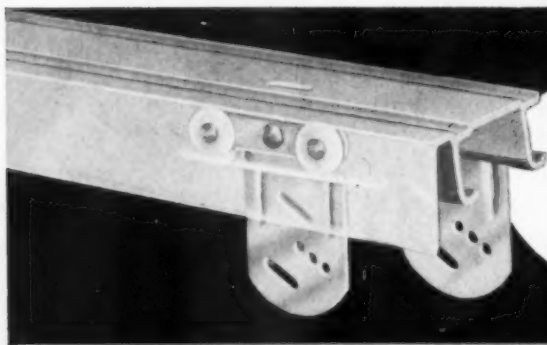
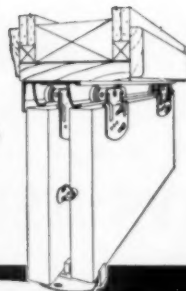
CLOUD OAK FLOORING CO.

SPRINGFIELD, MISSOURI





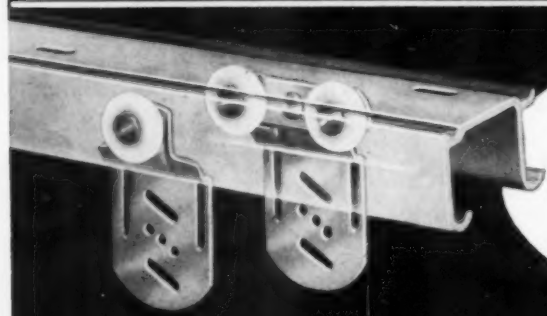
QUICKER, EASIER and all ways better FOR ALL SLIDING DOORS



600 SERIES

FIRST and only packaged sets with all these better features

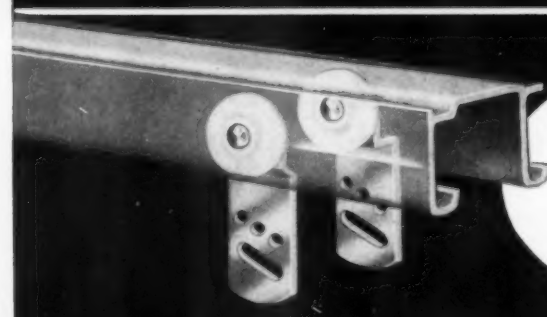
- Aluminum track with built-in fascia . . . etched and anodized. Fits standard head jamb. 1 1/4" headroom. Doors can be hung after hangers are attached.
- Twin nylon wheels with oiled-for-life bronze bearings.
- Steel hangers with angle-slotted screw holes for easier plumbing of doors.
- Door stop limits sliding action of doors to prevent pinching fingers.
- Nylon and steel door guide installed easily with just two screws.



700 SERIES

Similar to 600 Series except track does not have built-in fascia or anodized finish

- Aluminum track . . . fits standard head jamb. 1 1/2" headroom. Doors can be hung after hangers are attached.
- Twin or single 1" nylon wheels with oiled-for-life bronze bearings.
- Steel hangers with angle-slotted screw holes for easier plumbing of doors.
- Door stop limits sliding action of doors to prevent pinching fingers.
- Nylon and steel door guide installed easily with just two screws.



**THRIFTEE
PAK**

NEW! "THRIFTEE PAK" SET

FIRST and only set for BOTH 3/4" or 1-3/8" doors with all these features

- Aluminum track, 1 1/4" headroom. Doors can be hung with hangers attached.
- Big 1" nylon wheels. One piece, husky steel hangers with slotted screw hole for easier plumbing of doors.
- Nylon and steel door guide uses two screws.

low as \$5.50 list



CONSTANT IMPROVEMENTS KEEP STERLING
AHEAD OF COMPETITION — HERE ARE OTHER

FIRSTS FROM STERLING—



1058
Sliding Door
Lock



1200
Pocket Door
T-Frame



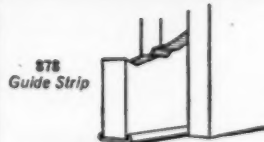
863
Pocket Door
Pull



863 - 865 - 867
Surface Mounted
Door Pulls



885
Door Cushion



878
Guide Strip

WRITE FOR OUR 24 PAGE CATALOG

See our Catalog in Sweets' Architectural or Light Construction Files

John Sterling Corporation

Formerly Sterling Hardware Mfg. Co.

2345 West Nelson Street, Chicago 18, Illinois

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The Opportunity Page

(Keynote page of the AMERICAN BUILDER, which is opportunity cover to cover, advertising and editorial)

Two-way pay off

It's good public relations to form home owner groups in your developments. Fred De Blase, Rochester builder, found these organizations not only provide more enjoyable living for residents, but allows him to present "short courses" on problems facing the buyer.

Strike while the iron's hot

Don't forget! Now is the time to follow up on your National Home Week leads. You've probably got a good list of prospective buyers—and while your homes are fresh in their minds, the best sales results can be obtained.

You're on your own

Dissatisfaction with their present housing and the desire for newer homes by many families are among the strong points in the housing market, advises Nat Rogg, NAHB's able economist. However, he warns, how you make out depends on your own efforts; improved design, better merchandising and intensive sales and promotion efforts are all important items.

Help your buyers

It's a smart home builder who supplies his buyers with information on home maintenance. Blase A Ravikio, N.J. builder and president of Home Builders League of South Jersey, has established a fine relationship with his customers. At the time of sale, a 35-page manual describing features from shrinkage and condensation to sewers and laundry traps and how best to maintain them, is given to buyers. Result: the association has never had a complaint on any of his jobs.

A place in the sun

For the builder constructing homes on small lots comes this good advice from

Southern Pine Assn. By planning the house around a patio, the entire lot becomes usable. An extra room comes into being that costs very little to add and has privacy and wind protection. A plank and beam ceiling and roof system opens up the plan to incorporate the patio while sections of the house together with louvered wood fences establish the enclosure.

Try something new

If you're looking for an out to the falling housing starts situation, you might follow the lead of builders who are switching to apartment and motel building. (See pp. 98 and 120.) To learn how the problem is being met nationally, see AB's survey on p. 23.

Keep your fingers crossed

If you're building in large metropolitan areas, you may be able to cut your home prices 50 per cent within fifteen years. So reports Julius Stulman, president, Stulman-Emrick Lumber Co., Brooklyn, N.Y. Laboratory research will enable crude wood to be replaced by wood panels that will serve as inner, outer and bearing walls, replacing 2x4's, shingles and plaster, he says.

For better TViewing

Builders of developments beyond the normal TV reception areas might adopt this good sales feature scheduled by Masterplanned, Inc., for their Whittier Estates in Kingston, N.Y. A 100-foot-high tower will be installed to pick up signals of five New York City channels 90 miles away. Home owners will be charged \$2 monthly for its use. Individual antennas would have cost about \$200 each and would have been vulnerable to storm damage.

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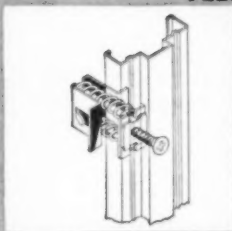
NEW SEAL-FLEX *Removable* WINDOW



OPERATIVE HARDWARE for Double-Hung Wood Windows

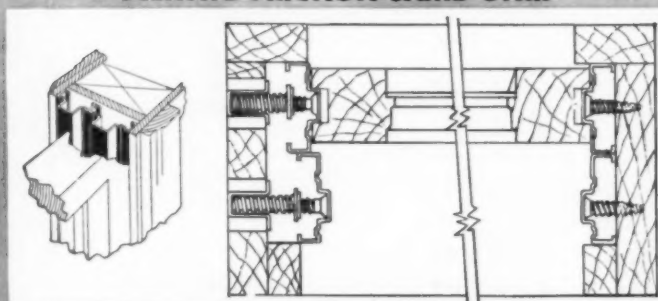
The new Seal-Flex Removable Window Operative Hardware is designed for use in all standard double-hung wood window frames. Both upper and lower sash can be quickly and easily removed by simply depressing the sash against the flexible left-hand jamb strip and removing window from the frame. Seal-Flex is available in two series "Flexite Friction" with friction-type right-hand vertical jamb strip, and "Flexite Spring-Check Balance" right-hand vertical jamb strip. The Spring-Check Balance mechanism is completely invisible.

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The left-hand vertical jamb strip is flexible for movability . . . easily adjustable for tension. For use with both Flexite Friction and Flexite Spring-Check Balance right-hand vertical jamb strips.

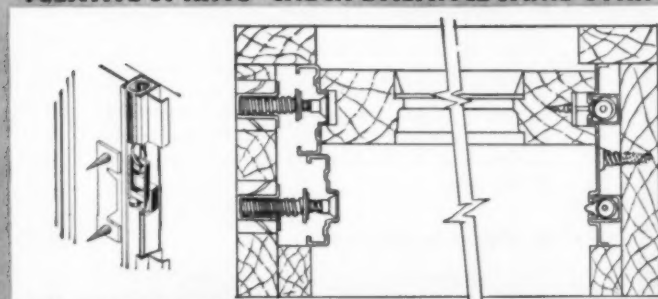
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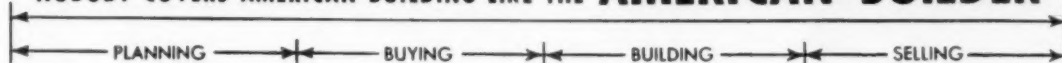
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**Lupton
Metal Windows—
Today's Best Value**

When you use Lupton Windows, you get one of today's best values. Their sturdy metal construction assures freedom from warping, swelling, shrinking and rotting. Their trim lines are an asset to any building. By combining fixed and ventilating units, you can offer home buyers a wide range of design possibilities. Example: The attractive bay, illustrated above, was assembled from two standard casements and a standard picture unit. With casements available in steel or aluminum; aluminum double-hung, ranch and jalousie windows; aluminum sliding doors and projected windows, Lupton Windows offer you a range of styles and sizes to fit almost any job. Contact your dealer for sizes and prices.

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14. ☐ **DUPLEX DESIGNS**—41 varied designs of 1 and 2 story duplexes and small apartments in brick, stone and wood . . . 50¢
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19. ☐ **SPECIAL OFFER!** Complete set of above books for only \$8.00—a \$2.25 savings.
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AMERICAN BUILDER

Impact

To The Editors:

American Builder
30 Church Street
New York 7, N. Y.

From Mrs. Gavin

To the readers of American Builder:

Dear Friends: I am going to try to answer personally all of the messages that I received at the time of my husband's death but it will take time.

I have always been aware of your love, devotion and respect for Ed Gavin but I am deeply touched by your sympathy and great kindness to me. My humble thanks.

—Sincerely yours, Bess Gavin
(Mrs. Ed Gavin)

The editors have their own letter from Mrs. Gavin. It is cherished.

HP Section for College Use

Sirs: I thought you might like to have copies of some of the promotion material we have recently released with reference to the splendid section you ran in June on Hardwood Plywood. . . We are going to use this workbook in 45 different college programs involving plywood and before the year is out believe that most of the total of 180 programs which we serviced last year will find that this data is valuable in their study course. We also expect to use it in the demonstration schools being planned by leading power tool companies. . . We are looking forward to receiving the 25,000 extra copies we ordered.

—R. D. Behm, Trade Promotion Program, Hardwood Plywood Institute, Chicago.

Permission Granted

Sirs: For more years than I care to remember I have been a subscriber and avid reader of American Builder.

Of particular interest to me

were pages 94, 95 and 98 of the August issue, dealing with Levitt's operations, and I would like to obtain permission to reprint same.
—Wm. G. Kirkpatrick, chief engineer, Norwood Sash & Door, Ohio.

"Accurate, vivid. . ."

Sirs: It was very thoughtful. . . to send me one of the first available copies of American Builder's September issue.

I thrilled to the reading and viewing of the section titled, "Smartest Uses of Gas Yet."

It is . . . an accurate, vivid picture of building developments affecting the gas industry across the country.

—C. S. Stackpole, managing director, American Gas Association.

"Reaction—Tremendous"

Sirs: Before we wrote to give you our impression of the Cooper-Homes Charlie Bates story in your June issue, we thought we would wait to get the industry's reaction.

In a word—it was tremendous. We have had letters, wires, phone calls and comments from all over the United States and territories. Everybody here, especially Tutt Cooper, Don Livoni and Charlie Bates extend their hearty congratulations and thanks for the nice job you did.

—G. Don Culphey, director, adv. agency dept., McCormick Co., Amarillo, Texas.

What Are the Public's Needs?

Sirs: It has become virtually impossible to finance a two-bedroom home, because the major insurance companies have suddenly turned thumbs down on two-bedroom homes. This attitude is fully as intelligent as financing nothing but two-bedroom homes ten years ago. . . .

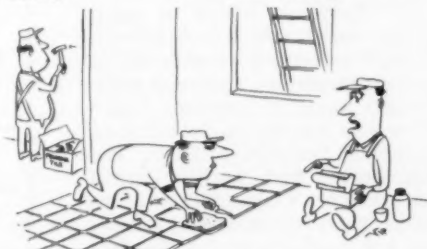
It is time we studied the needs of the American public instead of rushing from one extreme to another extreme, each time we come across some sticky houses. Take a cross-section of 100 families seeking homes, whose income is between \$4,000 and \$7,000 per year. In this bracket there will be a certain number of families who need only one bedroom and guestroom.

Today . . . in Pueblo . . . we are virtually building homes to order—everything from two-bedrooms to four. . . . Yet now we have been forced to stop building two-bedroom homes, because we cannot finance them except on very rigid terms. The number of bedrooms that a home contains is in itself, a deceiving factor. One family may convert a bedroom to a dining room, while another family will use all three.

I recommend that the lending agencies make an impartial survey of the public needs and be guided by that survey.

—John Bonforte, Pueblo, Colo.

We can understand why it's hard for even Philosopher Bonforte to remain stoical.



"That's my salami sandwich!"

(Cartoon by Virgil Partch—
Courtesy Pomona Tile Manufacturing Co.)

THIS "Poison gas"...

**COMMON IN HOUSEHOLDS,
IS DEADLY TO BUILDINGS!**



Huge quantities of a dangerous, invisible gas are generated by the normal daily household activities of an average American family of four; enough to condense into 76 quarts of a destructive liquid each week.

The soil under a building, especially in a crawl space, may also give up this gas at the rate of 336 quarts per week per 1000 sq. ft., when liquefied.

If this gas turns into liquid *inside* building spaces, it will foster the **ROTTING** of Wood, the **CRUMBLING** of Plaster, the **PEELING** of Paint, the **RUST** and **CORROSION** of Metal, even the **BREAKING-DOWN** of Brick, Concrete and Mortar.

This gas can also be a **THIEF OF HEAT** and **FUEL** in winter, as well as a destroyer of the building. With each pound of it that flows out of a building, there is an actual loss of 1060 Btu's of latent heat.

THERE IS A PREVENTIVE!

Aluminum has almost zero permeability to all gases, including the destructive gas of water, known as "vapor." Large quantities of vapor flow into ceiling and wall spaces, unless its path is barred. Condensation formation on or within scientific multiple aluminum insulation is minimized by the construction of multiple layers of aluminum, fiber and air spaces. Installation of this pre-fabricated material is easy. The aluminum sheets stretch with uniform depth from joist to joist, and are a continuous vapor-barrier up to 750 ft. long, without breaks every few feet. Vapor infiltration under the flat stapled flanges is slight.

*U. S. Pat. Nos. 2,750,313; 2,314,757; 2,227,385; 2,196,006; 2,101,836.

The heat ray reflectivity of its aluminum surfaces is 97%; absorptivity and emissivity are only 3%. This is important because the flow of heat rays, or **RADIATION**, constitutes 50% to 93% of heat flow through building spaces (depending on direction). The multiple layers of aluminum and fiber retard **CONVECTION**, while **CONDUCTION** is slight through the low density, multiple air spaces.

National Bureau of Standards tests were made under various extreme wintry conditions with quantities of vapor, to find if condensation would form in air spaces where reflective insulation was installed below a wood floor over a crawl space. The results are reported in an interesting and informative booklet of the National Housing Agency, "Technical Bulletin #38." Just use the coupon to get a copy **FREE**.

**INFRA INSULATIONS CAN BE PURCHASED
everywhere through your preferred local dealer
for 3¢ to 12¢ per sq. ft. depending on the type.**

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Please send NHA's "Technical Bulletin No. 38."

NAME

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ADDRESS

The Building Outlook

SMALL TALK

REALM OF THE FUTURE

By the year 2000, construction will be the major industry in the United States. The sun will be its power source and water will be the top raw material. So predicts New York University's Institute of Economic Affairs.

WORLD OF WINDOWS

Most challenging product of tomorrow is the variable transmission window whose opacity to light and radiant heat can be adjusted manually or automatically by the user. This, says David G. Hill, president, Pittsburgh Plate Glass Co., will allow builders to maintain style and an expansive feeling while avoiding too much heat and variation in light intensity.

LOWER DOLLAR VOLUME

Expect a decline of 6.6 per cent in outlays for new residential construction this year over 1955. That's the word from U. S. Savings and Loan League which forecasts total expenditures of \$15.5 billion compared with \$16.5 billion spent during 1955.

ALUMINUM 2x4's?

Aluminum extrusions may soon "replace the 2x4 and other basic materials in home construction." That's the word from Eugene F. Gurkoff, president, Capitol Products, Inc. One decade from now, he predicts, American homes will contain more aluminum (both in structure and furnishings) than any other metal including steel.

YOU WON'T GO WRONG

A good motto for all builders to follow comes from HBA of Mahoning Valley (Ohio): Watch your costs and know your markets.

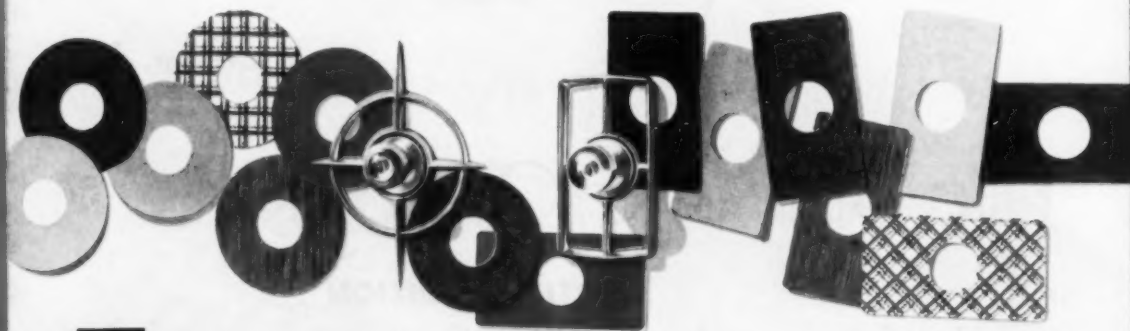
NORTHERN EDITION

WHAT WILL YOU BE BUILDING? It probably won't be a colonial or otherwise "old-fashioned" design. A National Assn. of Real Estate Boards' survey reports a heavy preference for ranch-type construction with contemporaries running about equal to or over conventionals. Cities favoring the low, wide house included Philadelphia, Cincinnati, Columbus, Cleveland, Pittsburgh, Detroit, Grand Rapids, Chicago, Milwaukee and St. Louis.

HOW ABOUT HOUSING? In asking that question, F. W. Dodge Corp. comes up with a good point to remember. Although there hasn't been any drop in basic demand for new housing, effective demand is something else. The latter represents the number of new homes actually built and bought. And there definitely has been a drop in effective demand due primarily to financial factors. However, one industry official predicts: We're in danger of having too few houses and not too many if homebuilding doesn't pick up.

A CRITICAL YEAR FOR HOUSING LEGISLATION. That's how 1957 shapes up in the mind of Joseph B. Haverstick, NAHB president. Top problem is the need for a broad new program of assistance for veterans and non-veterans before the GI loan program expires.

A HIGHLY REGRETTABLE, BUT ALMOST CERTAIN RISE in new home prices will occur in the months ahead. This can be blamed, says John M. Dickerman, NAHB executive director, indirectly on higher steel prices and also on the tremendously high level of overall construction which has caused building materials costs to rise. And, says Irving Rose, president of the Detroit building firm, Edward Rose & Sons: Inflationary factors triggered by recent steel industry wage increases will up the cost of the \$20,000 home about \$1,000.



1

PRE-CUT "Color-Accent" BACKGROUNDS...

... designed to give you an inexpensive, colorful means of gaining full sales appeal from Schlage's recently introduced open-back lock stylings. Made of Con-Tact®, self-adhesive plastic, "Color-Accent" Backgrounds cost only pennies ... can be easily applied in a matter of minutes ... at

the same time Schlage open-back designs are installed on your doors. Available from Schlage dealers in a wide variety of colors and patterns, "Color-Accent" Backgrounds allow you to individualize doorways ... give each home a unique, personalized entranceway.

TWO NEW "EYE-APPEALING" IDEAS FROM SCHLAGE—

To help merchandise your homes!



2

"TOUCH OF QUALITY" PROMOTION PACKAGE...

... your invitation to a free, full-scale merchandising program — developed especially for you by Schlage. Here's everything you need to appeal to prospective home-owners with Schlage's "Touch of Quality" story — including an attractive 12-page "Model Home Booklet," a hand-

some display easel, colorful lock tags, ad mats and "drop-ins," plus a unique key presentation package for the new home-owner. An excellent means for impressing model home visitors that quality guides your choice of materials throughout your homes.

For further information on Schlage's New Merchandising Tools... "Color-Accent" Backgrounds and the "Touch of Quality" Promotion Package ... contact your nearest Schlage representative or write to Dept. Y-10, Schlage Lock Company.

SCHLAGE

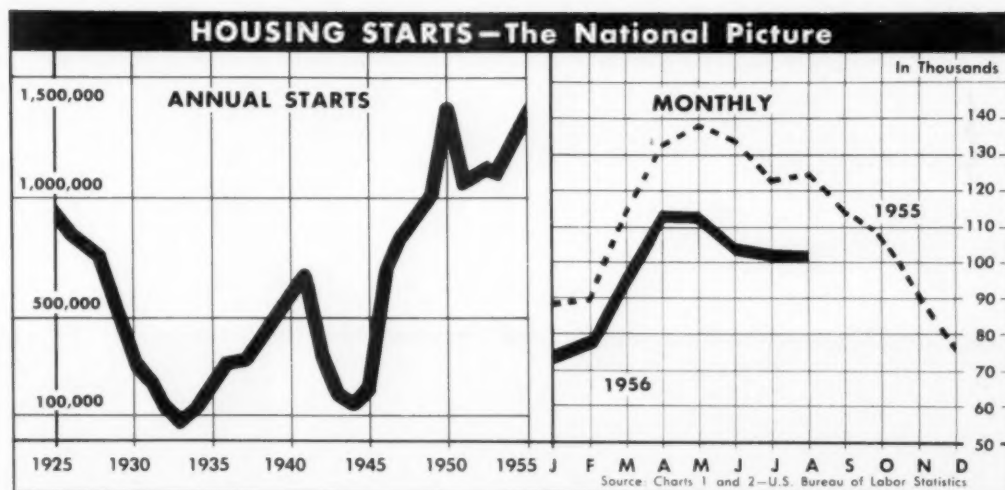
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Pulse of Building

WHAT'S HAPPENED

WHAT'S AHEAD



Interpretation

1 ▶

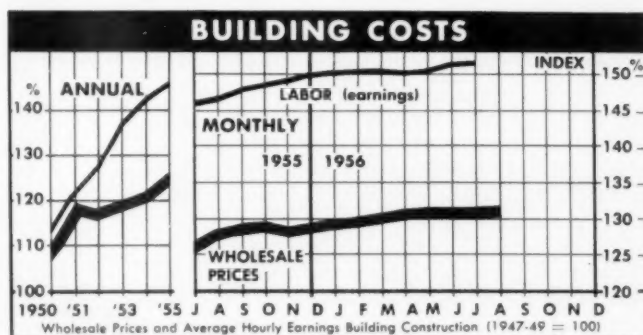
CONTRARY TO USUAL AUGUST DECLINE, housing starts for the month held at the July level of 101,000. Thus, the seasonally adjusted annual rate rose from 1,100,000 to 1,140,000.

Interrupting the down-trend of the previous two months, August housing starts, combined with an increase of building permit authorizations, held hope for continued strength in September. Building permit increase was widespread geographically. Rising material costs and hourly earnings may signify the upturn in new home prices which have been forecast by industry spokesmen.

15 LEADING HOME BUILDING AREAS

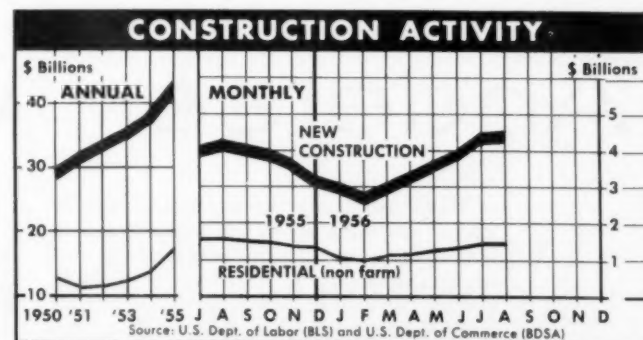
Dwelling units built in Metropolitan areas during 1956. (BLS)

		% Change Jan.-May 1955-56
Los Angeles	47,540	-16
New York	32,362	-24
Chicago	22,954	-10
Detroit	14,512	-14
San Francisco	10,266	-29
Washington	7,835	-28
Miami	7,409	-4
Baltimore	5,420	-29
San Diego	5,394	+10
Cleveland	5,107	-21
Denver	4,478	-33
Atlanta	4,476	-17
Boston	4,356	-10
Buffalo	4,153	-6
Milwaukee	4,086	+19



2 ▶

NEW HIGHS in building material costs and hourly earnings were set in August. Continuing decline in lumber prices did not offset the 8% rise in structural shapes and other gains.



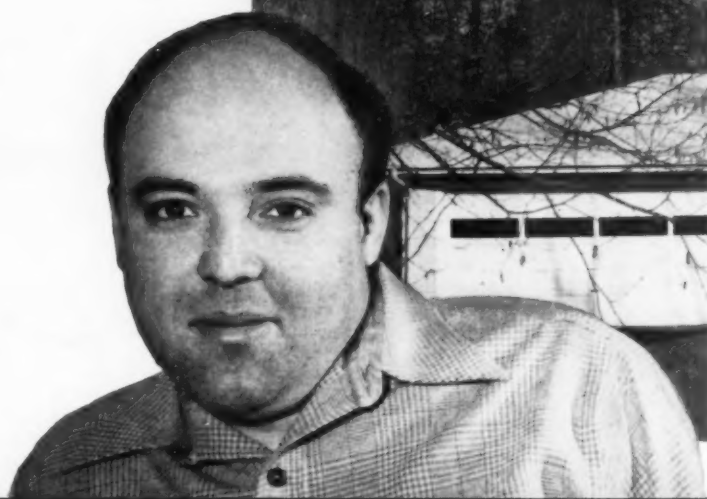
3 ▶

ANOTHER RECORD in construction activity was reached with outlays of \$4.3 billion. Private spending equalled the Jan.-Aug., 1955, record while public expenditures were up 6%.

Guido Antonelli, President, Guy Antonelli, Inc., Detroit, Mich., says, "The Andersen name helps sell our homes. Quality Andersen features such as insulating glass, fitted screens, weatherstripping are important parts of our sales story. Another important feature is the ease and speed of installation. And we have learned from experience that Andersen Windows are going to give a lifetime of reliable service to our customers."



Saul Fox, Fox Brothers, Englewood, N. J., says, "'Homes by Fox' have used Andersen Flexivents® since 1953. We like them because they help establish ours as quality homes—and their horizontal lines blend with the 'long, low look' of the houses we build. We have found that our customers know about Andersen Windows—and recognize the Andersen name as a mark of superior quality."



In Michigan and New Jersey, buyers of upper bracket homes tell builders . . .

Andersen Windows

These two successful builders of quality homes are using Andersen WINDOWALLS to help close sales! Their discriminating customers are quick to recognize the window beauty, the convenience, the year around protection that only *windows of wood* can offer. Everywhere, men who build fine homes for sale are turning to Andersen WINDOWALLS for their versatility, precision manufacture—

and most of all, for their powerful sales appeal to customers who recognize the very best! For the next project you plan or build, look into the sales-closing advantages of Andersen WINDOWALLS. You can get more information from your lumber and millwork dealer, from Sweet's Files, or by writing Andersen. WINDOWALLS are available throughout the country, including the Pacific Coast.



Andersen Casement Window Units in \$43,000 to \$48,000 suburban Detroit homes. Eugene Anderson, designer.



Flexivents featured in \$27,500 Mountain Lakes, N. J. homes. Martin, Gebhardt & DiPaola, architects.

say "quality homes"

Andersen Windowalls

TRADEMARK OF ANDERSEN CORPORATION



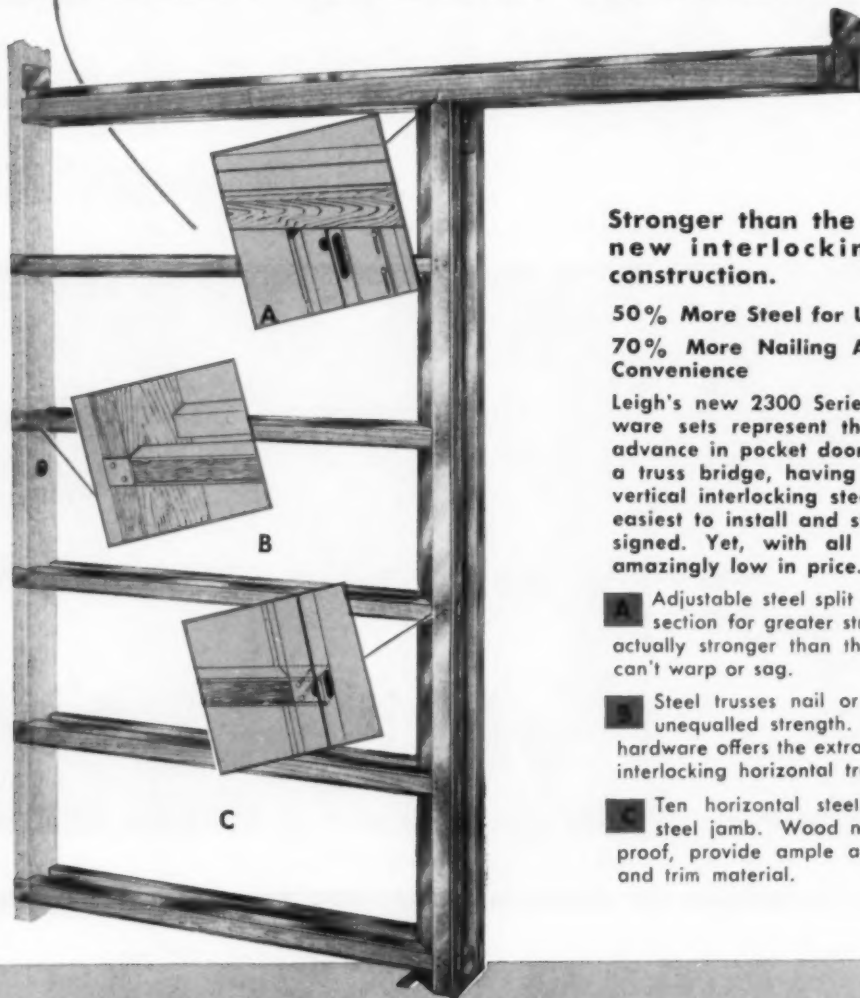
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NEW from LEIGH

Advanced Design

POCKET DOOR HARDWARE



Stronger than the wall itself with new interlocking steel truss construction.

**50% More Steel for Unequalled Strength
70% More Nailing Area for Greater Convenience**

Leigh's new 2300 Series Pocket Door Hardware sets represent the industry's greatest advance in pocket door hardware. Built like a truss bridge, having both horizontal and vertical interlocking steel trusses, this is the easiest to install and strongest set ever designed. Yet, with all its advantages, it's amazingly low in price.

A Adjustable steel split jamb, built in a boxed section for greater strength and rigidity . . . actually stronger than the other wall supports, can't warp or sag.

B Steel trusses nail or screw to stud, giving unequalled strength. No other pocket door hardware offers the extra-strength feature of ten interlocking horizontal trusses.

C Ten horizontal steel trusses interlock into steel jamb. Wood nailing inserts are rattle proof, provide ample area for attaching wall and trim material.

Trouble-free operation is assured with Leigh 2300 Series Pocket Door Hardware. Heavy-duty hangers support the door from a center-mounted position. Four lifetime nylon wheels roll smoothly and silently, absolutely can not jump the track. The

complete set comes in one convenient package, containing steel header and track, split jamb and horizontal trusses all with wood inserts; hangers with 4 nylon wheels; nylon duo-guide; rubber door stop; door pulls; all necessary screws and instructions.



Leigh

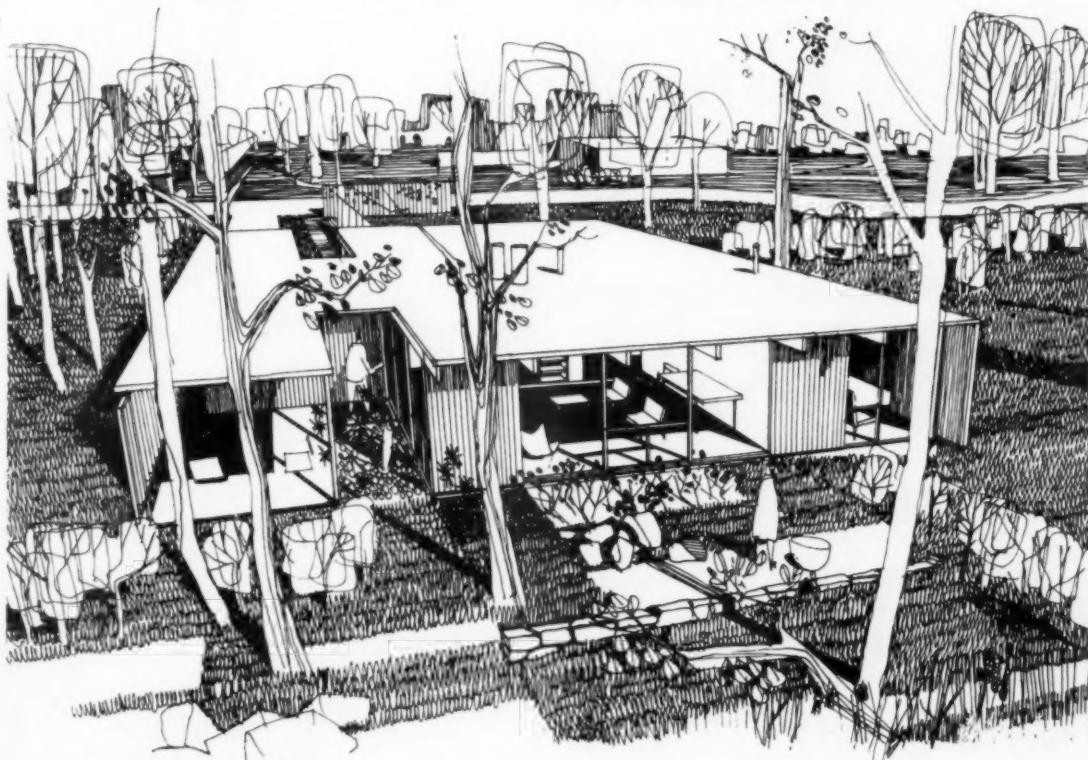
BUILDING PRODUCTS DIV.

AIR CONTROL PRODUCTS, INC.

Leigh Ave., Coopersville, Mich.



Tomorrow's House



\$1500 Prize Winner stays down to earth

A look at the plan of this grand prize winner in the Morton Arboretum Small House Competition will perk up the interest of any hard headed builder.

An amazing lot of living space is efficiently laid out in about 900 sq. ft., which should be both easy to build and quick to sell.

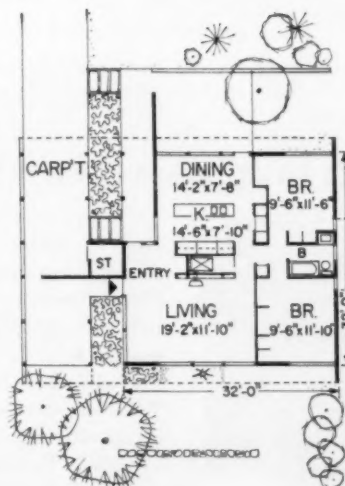
The entry by Gardner Ertman of Cambridge, Mass., won a \$500 first prize in the two-bedroom class and the \$1000 grand prize for that entry, plus another \$500 first prize for a three-bedroom design. Nearly 650 entries competed for the \$5400 in prizes, the main problem being "the establishment of an attractive, practical relation of interior and exterior."

The three elements that impressed a unanimous jury were:

a) relation of carport entrance to house proper ("handled quite directly and near the center of the structure"); b) "integration between living room and outdoors . . . accomplished by a covered terrace separated from living room by a small planted area"; c) "both bedrooms carrying out the same theme by ample but visual access to planted areas."

Builders will like the almost square plan and simple partitioning; buyers should like the easy view of greenery from every room, economical traffic pattern without loss of privacy.

Serving on the jury were L. Morgan Yost, John Normile, J. T. Lendrum, Douglas Haskell, Howard Fisher, Philip Will, J. B. Mason.



Big news from FLINTKOTE!

the self-sealing, hurricane-resistant

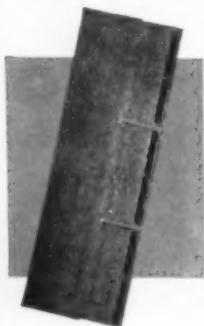
SEAL-TAB

—a brand-new shingle with a
brand-new idea that gives you a
roof that helps sell the house!

Now Flintkote research and production skill has produced another superior product—one that's exciting news for you, your men, your customers and home underwriters. It's the new SEAL-TAB* Strip Shingle with these outstanding features—



1 SEALS ITSELF DOWN



Each SEAL-TAB Shingle has a strip of carefully selected Flintkote-developed adhesive factory-applied on the underside of the shingle butt. The sun's heat bonds SEAL-TABS together to produce a completely integrated roof, so tightly bonded that *even winds of hurricane proportions can't lift the tabs!*

2 TROUBLE-FREE APPLICATION



The exclusive Flintkote aluminum strip retards the action of the adhesive *until it is needed*. In addition, this aluminum strip keeps the shingles free in the bundle... they do not have to be broken apart on the job. A SEAL-TAB roof is quick and easy to apply, guarantees greater customer satisfaction.



Ask your Flintkote Representative to show you the new SEAL-TAB Strip Shingles today. They are available in a wide variety of beautiful colors. For complete information write: The Flintkote Company, Building Materials Division, 30 Rockefeller Plaza, New York 20, New York.

As soon as the editors and designers of "Best in the House" saw the new Flintkote SEAL-TAB Strip Shingle... they decided to use it on the roof of their model home. So your customers will see and read all about this new Flintkote material in the "Best in the House" advertising feature, in the October issue of GOOD HOUSEKEEPING. Be ready when the demand starts.

*A Trademark of The Flintkote Co. Patented—U. S. Patent 2,810,809—also patent pending



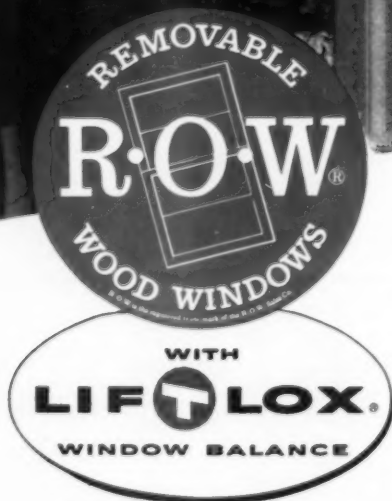
FLINTKOTE
Originator of the Asphalt Strip Shingle



A SASH IN THE HAND -



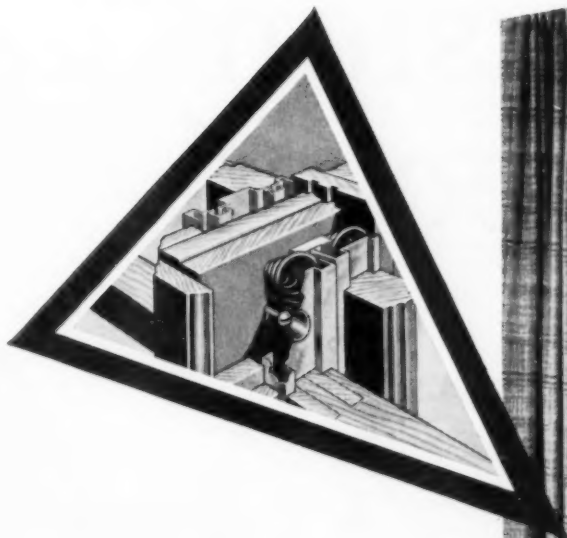
The famous R·O·W lift-out window is now better than ever. An entirely new principle of window balancing — LIF-T-LOX — serves to make these pressure-tight windows easier to raise and lower. The exclusive new balance also makes removal easier, since it is now necessary to have only enough side pressure to insure a good weather seal. The entirely self-contained balance works independently, does not attach to the sash—does not interfere with immediate removal.



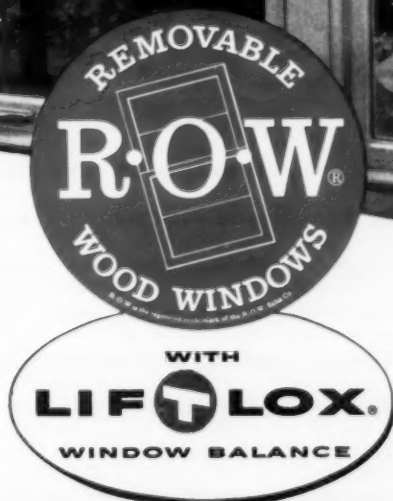
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Any window with wood frame and sash provides better insulation against heat and cold than a metal window. So too, any operating window is more practical than fixed glass. Fresh air is pleasant, the year around—it's a *must* during the seasons between heating and cooling. Of all operating windows, none are so trouble-free, so economical and so architecturally versatile as the double-hung style. Among double-hung windows, only R·O·W has the lift-out feature, plus the exclusive, new LIF-T-LOX balance.



See your local lumber dealer or write

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NATIONAL LOCK *set*

Patent Applied For

...precision engineered



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Important
Reason Why
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Precision engineering and skilled manufacturing, coupled with modest cost, provide a lockset that is unexcelled for real dollar value. NATIONAL LOCKset gives you a lock mechanism and case made of rust-proofed, selected cold-rolled steel. Cylinder is of five pin tumbler construction . . . solid Brass. One-piece wrought Brass, Bronze or Aluminum knob with matching rose . . . reversible latch bolt with full 7/16" throw . . . many exclusive features engineered to *reduce* wear and to *resist* wear . . . these factors and more are making new friends every day for quality-made NATIONAL LOCKset.

SEE NATIONAL LOCKSET ON DISPLAY, SPACE 765 - 766, COLISEUM, NAHB EXPOSITION.

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**Specify it
With Pride**



NATIONAL LOCK COMPANY

ROCKFORD, ILLINOIS • MERCHANT SALES DIVISION

Chain reaction: tight market cuts starts

Home Builders throughout the nation, though feeling the pinch of a tighter market, are taking it in stride. By cutting down their output and switching, where feasible, to custom building, they feel they can wait out the storm until things pick up again. (NAHB president, Joseph B. Haverstick, citing a "critical" period has warned builders to pull in their fences—see p. 25.)

Since government statistics have shown industrial building leads construction activity, it was fair to assume that home builders might have entered the field. Some have, but not to the extent expected.

These points are clearly indicated by replies received to an American Builder survey which asked: "With housing starts below those of 1955 and money continuing tight, is there any trend of home builders in your area to switch to light industrial building? If not, how are they meeting the situation?"

Typical reply came from Joseph W. Van Briggie, executive vice president, HBA of Indiana: Some of the state's most active home builders have always been willing to take a little light industrial work and it is quite likely that home building may be slighted in favor of an increased interest in the commercial type of work.

"But," he added, "most builders are reducing the volume of operations if they have been speculation builders and are switching to an operative form—building only as orders are received. Others who have been operative builders are doing custom building generally in higher price ranges. These men report they are not too badly hurt as their dollar volume is only slightly reduced and margin of profit is better."

Signs that home builders are anxious to get their feet wet in the industrial end of the business comes from Norman, Okla. W. T. Jameson, secretary-treasurer of the local HBA reports two builders who follow light industrial building—one who has done it all along and another who recently entered

the field. Both do a great deal of store front work, filling station and business building along with their home construction activities. Others, he noted, are seeking bids for the same type of work. Jameson, too, takes an optimistic view of the future.

Paul Waters, executive vice president, HBA of Knoxville, knows of

several builders who now do some light industrial building. And, from Phoenix and New Orleans comes word that there is some switching to light industrial. Meanwhile, the monthly publication of HBA of Metropolitan Washington reports about five per cent of the area's builders have turned over to the

Cont. next page



Joseph B. Mason



Walter Reese Browder

Mr. WHAT and Mr. HOW

Every article in American Builder has two points of view: WHAT to build and HOW to build it. That's why nobody covers American building like American Builder.

Similarly, every page of American Builder is written in our shop from two points of view: WHAT is the best story-idea for the page and HOW can the page best be prepared for easy but instructive reading. That's where the team of editors shown above comes in: Joseph B. Mason, our new Editorial Director, handles the WHAT. Walter Reese Browder, our new Editor, handles the HOW.

It's a pleasure to announce their appointment.

Joseph B. Mason was Editor of American Builder from 1929 to 1945. He has also been Editor of Building Age, Building Editor and Director of the Building Forum for Good Housekeeping, executive editor of Architectural Record and Building Editor of Family Circle. He is a graduate of the University of Wisconsin and has a Ph.B in Engineering and Journalism. He rejoined American Builder in 1954.

Walter Reese Browder has been the Managing Editor of American Builder. He has an M.S. degree from the Graduate School of Journalism, Columbia University, and a B.A. degree in Journalism and English from Washington and Lee University. He is a Phi Beta Kappa and has spent the last ten years in the housing and home furnishing publishing fields.

—Arthur J. McGinnis, Publisher

Reaction, cont.

building of service stations and small shopping centers.

Although there is no general trend to light industrial in the Dallas area, Herbert DeShong, executive secretary, HBA of Dallas County, reports about half a dozen builders cross the line annually.

Remodeling picks up

Remodeling, up to now an industry step-child, shows signs of becoming a full-fledged member of the family. Such is the case in the Kansas City area where Leo D. Mullin, executive vice president of the HBA reports a good number of builders are engaged in home building improvement activities. In Knoxville, the remodeling field is wide open, reports Waters.

The 10-to-20 builders are now building mostly contract homes and speculative builders are maintaining very small inventories around Tacoma. That's the assertion of Clarence Wilson, executive secretary of Tacoma Master Builders Assn. who also said some are doing considerable remodeling. Another area where some remodeling is being done is Des Moines. However, wired G. R. Rex, HBA executive secretary, "most builders are just slowing down their pace."

Adjusting to market

Many areas find industry members simply adjusting their operations to meet the falling market. Such is the case at Minneapolis where Lawrence W. Nelson, executive vice president of the local HBA, reports most builders anticipated the tighter market. Cutting down on the number of units under construction has also been the answer, Birmingham and Greater Boston HBAs report.

Although they consider the market healthy with no backlog of unsold houses, E. Price Hampson, secretary Albuquerque HBA, says local builders are either curtailing operations or switching to custom building. And from Leon N. Weiner, vice-president, Delaware HBA, the word is that builders in his area are seeking a solution by diversification and intensified effort to reach the higher-income buyer.

Evidence of increased demands for new homes this fall and in

1957 is cited by Urban C. Rummel, executive secretary, Colorado Springs HBA. But, he added, builders are cautious.

Only one real note of pessimism was evident. Said Earl Staten, executive vice president, Utah HBA: "Meeting situation by releasing construction crews. Unemployment among tradesmen including expert carpenters and other craftsmen is increasing because of slow sales."

On the other hand, Walter Olsen, Chicago Metropolitan HBA, wrote: "No situation has developed in

Chicago. There is a little less residential construction in 1956, which likely will be made up this autumn, and we believe starts will equal 1955 . . . Home sales are a little harder, money is a little tighter, land is a little higher — as are some materials and labor costs. Homes are being built and sold as usual."

Olsen concluded by quoting George Arquilla, NAHB regional vice president and a past president of the Chicago association. "We're facing normal times."

FHA must liberalize terms

With the curtain due to descend on the GI home loan program, re-vamping of FHA is a "must" according to industry members queried by American Builder. Replies make it clear that Congress and administration officials must act—particularly regarding down payment requirements—if home builders are to continue the remarkable record they set in the past decade. Also included as a "must" in any FHA revisions is a desire for more realistic appraisals.

"If GI home loan program expires in 1958, would like to see 1957 housing bill contain terms permitting purchase of a home up to \$10,000 value with two per cent down payment and a graduated scale . . . to a maximum insured mortgage of 80 per cent of \$20,000," replied Miami builder James M. Albert. He believes such terms would make the economy home available to all at a reasonable figure while providing for orderly transition from the GI program.

Agreeing on the need for more liberal financing terms is Ralph E. Staggs of Phoenix who would like to have Congressman Teague's entire program adopted.

Ask appraisal changes

Along with a low down payment program, George M. Pardee Jr., of Los Angeles also asks for more realistic appraisals from FHA so that minimum down payments are actually minimum and FHA appraisals are equal to sales prices of the homes. Other Los Angeles builders concurred, asking for an

early Congressional hearing.

Regarding appraisals, Robert J. Gump, Dallas, has the impression that recent liberalizations have given more realistic allowances for overhead in medium and upper brackets. However, he adds, "Our growing use of air-conditioning makes mandatory FHA get better current figures on a c costs in certifying earnings eligibility. I believe many buyers now knock out because of dated operating cost figures."

A more liberal FHA with more realistic appraisals is also the desire of J. F. Carabin, president, Cincinnati HBA.

Scores "reasonable value"

"One thing I would very definitely like to see done away with is the one-year warranty, also having to show the buyer what the FHA 'reasonable value' is on their commitment," writes R. O. Woodson, Corpus Christi. "In many instances the 'reasonable value' will be so low that we cannot sell for their price. When we put our price where we have to and show 'reasonable value,' many times it kills sales for us."

A three-point program for FHA as outlined by a Phoenix building firm would include:

- incorporation of further low down payment provisions enabling low income group to buy housing.
- legislation providing service housing in order to induce reenlistment in the armed forces.
- further provisions encouraging housing for the elderly.

Storm warnings hoisted; Haverstick advises builders

Joseph B. Haverstick, NAHB president is worried. He's worried about mortgage money; he's worried about rising costs; he's worried about the shift to higher-priced homes; he's worried about falling starts; and, he's worried about the number of builders going out of

business this year.

(These worries led to an emergency meeting of NAHB's officers and policy committee Sept. 10-11 which charged that the administration's "money managers" were making decisions that had dried up mortgage money under the guise

of preventing inflation. "The time has come—in fact, the time has passed," a statement said, "for the homebuilding industry to state in the most vigorous terms at its command that the Government must reaffirm its fundamental belief in

Cont. page 268

DICKERMAN'S COLUMN

By John M. Dickerman, Executive Director, National Assn. of Home Builders

Credit controls hit housing industry the hardest

Home building volume in the last few months has been steadily declining. Industrial and commercial expansion, as well as economic activity in general, has been climbing to new heights. Federal Reserve Board and fiscal authorities have been applying the monetary brakes in an effort to hold inflationary tendencies in check.



Dickerman

All efforts to ease arbitrary credit controls on housing and to divert credit into home mortgages to check the decline in residential construction have, as of this writing, come to naught. The reason assigned: Inflation must be stopped. To those of us in the housing industry this position of government officials has seemed highly inconsistent. Tightened credit has had little effect apparently on burgeoning commercial and industrial development and yet it has had devastating effect on housing which already was showing signs of a decline at the time controls were placed on the industry.

Even a year ago, FHA-VA loans in most parts of the country were available only at substantial discounts. This reflected the relatively poor competitive position the 4½% FHA-VA gross interest rate gave mortgages compared to other available investments. Keep in mind the typical prime lender actually nets only 4% or slightly less after paying the normal ½ of 1% servicing charge to the local mortgage company.

Discounts a headache

Since the rise in the prime rate to 4%, increase in the Federal

Reserve discount rate to 3% and sale of utility offerings at nearly 4%, stock brokers loans at 4½%, the long-term FHA-VA paper has been unmarketable except at ruinous discounts.

Home builders have been absorbing these discounts on insured and guaranteed loans in order to stay in the FHA-VA market. In the meantime, the rise in costs of land, materials and labor has drastically narrowed the profit margin out of which these discounts must be paid. Builders simply can no longer afford to pay the discounts and continue to shoulder the building business risks. Here is a curious anomaly:

The home builder who finds that the cost of materials and equipment to go into a proposed house has gone up \$800 or \$1,000 in a given period of time can obtain recognition by FHA and VA of this fact when the time comes to evaluate the house. The same builder who is forced to pay the same amount in the form of a discount to get a permanent loan for the consumer cannot get this cost recognized. By some strange reasoning, this discount is presumed to be illegitimate and therefore not recognized by the insuring agencies. Of course, a discount is the only way that the market may compensate for a frozen rate.

Why not unfreeze the interest rate some would suggest? FHA rate could be raised by Administrative action; VA rate could not, since it is established by Congressional action. Congress might or might not agree to a rise—but the question is academic until next year when Congress convenes. If FHA rate is raised the two government-insured and guaranteed programs would become imbalanced

in favor of FHA and VA program would wither in the vine. This might create considerable political problems for the administration.

This is the dilemma facing government officials today. It does little good to say they should have anticipated this possibility and provided for it no matter how clear this fact is in retrospect.

Government must act

NAHB leaders for months have been calling this growing problem to the attention of responsible government and financial authorities. They have pointed out that it is FHA and VA housing on which lower and middle-income families must depend for long-term, low down-payment loans. It is this very group to which public housers and those who believe in socialized credit and socialized housing point as needing assistance. The continued "head-in-the-sand" attitude on the part of those responsible for fiscal policy must have but one result—reduction in low cost housing volume by private enterprise and corresponding increased demands by public housers for tax subsidized housing.

Unless this increasingly critical situation is remedied by strong administration action between now and the convening of Congress, we may expect a deluge of housing bills of every conceivable kind and description. Many will attempt to project the Federal government via socialized credit or direct construction into an ever increasing portion of our housing economy. The very authorities who have been blind to essential requirements of FHA-VA market will undoubtedly look with horror upon such proposals. They now have it in their power to act. It is sincerely hoped they will.

Research homes

Opening of Homestyle Center—the permanent research village of 50 houses announced last year for Grand Rapids, Mich.—is now slated for next Spring, at which time twenty-five of the houses will be completed. The remaining twenty-five will be constructed during the following three-year period.

Included in the first group of homes will be all price ranges—from \$8,000 to \$17,000, \$17,000-\$50,000 and \$50,000-\$200,000; architectural designs embracing experimental, modern, contemporary, traditional, modernized and imported; representative houses from the east, south, midwest, southwest, west and northwest; homes for families of two members to those with over five persons; and dwellings representing urban, suburban and farm living.

As previously announced, once the original fifty homes are built, five to ten homes will be removed each year and replaced by new de-

signs. All will be kept open the year around for public and industry inspection.

For a preview peek at what you'll be seeing at Homestyle Center, be sure to watch forthcoming issues of American Builder. You'll learn what to expect in "Tomorrow's House."

Events and people

NAHB's 13th annual convention, slated for Chicago, Jan. 20-24, again calls for sessions of interest to both small and large-volume builders. Subjects announced by convention committee chairman Leonard L. Frank include: "problems of the one-to-twenty builder," "community facilities," and the "economic outlook for 1957."

Newly-created merchandising department of NAHB will be headed by William A. Molster . . . Bernard E. Loshbough was appointed general manager of the National Housing Center. He was associated with Ford Foundation.

PRESSTIME BULLETIN

Tentative steps to ease the tight mortgage situation were announced as American Builder went to press. Main easing came with reduction from 7 to 5 per cent in minimum down payments needed to purchase homes priced up to \$9,000. Early industry reaction was to applaud this as a step in the right direction. But, leaders pointed out that it would have little appreciable effect in many sections of the country.

Other moves to ease credit included action by FNMA trimming amount of its stock each seller must buy to one per cent and increasing advance mortgage buying commitments it offers from \$92 to \$94 for each \$100 of mortgage amount.

DEALER'S VIEWPOINT

By H. R. Northup, Exec. Vice Pres., National Retail Lumber Dealers Assn.

Lumber dealers to get the "how" of building

The expanding interests of retail lumber dealers are graphically illustrated by the management clinic subjects planned for our third annual Building Products Exposition in Chicago during December.

Two of the clinics are devoted to specialized aspects of housing. One features the use of component parts in home building, and the other will deal with the homes which we have had designed in accordance with the recommendations of the Women's Congress on Housing. More and more dealers are concerning themselves with the building of homes rather than merely supplying materials to be used for house construction.

Kitchen remodeling is the theme of another clinic. Dealer interest in this subject ranges from supplying cabinets for new kitchens to taking contracts for the complete remodeling job, including equip-



Northup

ment and appliances as well as cabinets and floor, wall, ceiling, and counter top materials.

Most popular clinic of all at the first two expositions was one dealing with mechanical handling of lumber and other materials. The increased cost of unloading, storing, and loading lumber, roofing, gypsum board, and other heavy materials has sharpened dealer interest in cost reducing equipment such as lift and straddle trucks.

The materials handling clinic this year will include actual demonstrations of freight car unloading and other operations inside the spacious amphitheatre.

Power tool demonstration

Another action-type clinic will feature demonstrations of power tools, which are being sold by an increasing number of dealers each year to the do-it-yourself trade, as well as to carpenters and contractors. Recent surveys indicate that nearly half of the dealers handle one or more lines of power tools.

A brand new type of clinic will

be devoted to concrete mix operations which have begun to attract widespread attention of dealers, especially those who believe that it pays to offer every type of material and service that customers might need in connection with building.

Will stress merchandising

Other clinics at the Chicago Exposition will deal with a wide range of management subjects, with special emphasis on merchandising. In that connection, one clinic will center around a model retail lumber store which will show the latest ideas in store layout and display techniques for the guidance of dealers who wish to make a strong appeal to the consumer trade.

Methods of building sales by proper use of consumer financing, including installment selling and mortgage credit, will be the subject of another clinic for dealers seeking a larger consumer business.

These attractions, plus the product exhibits and entertainment features are expected to result in the largest dealer meeting ever held.

Ranch style now traditional, 3 bedrooms the rule in Chicago

Ranch homes are now considered a traditional type of architecture; and three bedrooms is the rule rather than the exception. That's what the Chicago Metropolitan HBA learned from its builder members in an attempt to find out what's happening with homes, builders and people in the Chicago area.

Of the ninety-two builders who replied to the survey, all built from one to 200 homes in 1956 in the \$14,000 to \$100,000 price range and are responsible for constructing over 4,500 houses this year. Answers give a clear picture of what is going on in the area.

"Splits" on the rise

Although the three-bedroom trend has definitely been established, three builders replied they were offering five bedrooms, while 17 offer four. Only nine provide two.

In an area where the split-level was a novelty two years ago, over half the builders now erect "splits." These have surpassed one-and-one-half and full two-story homes.

While financing continues to be a thorn in the side of the builders in almost all sections of the country, seventy-five of the replying builders wrote an unqualified "yes" to the question, "Are you able to get adequate financing?" But some were among the dozen who said financing is their biggest headache.

Some other "biggest problems": 21 replied "land," either cost, availability or improvements; 13 had various labor difficulties; and 14 felt the labor supply was inadequate. Said a number of others in effect, "Buddy, everything is a problem."

Other information from the survey: Only four of the ninety-two merchandise pre-fabs. Seventy keep a model home open, but most do not furnish it. Many builders install no appliances. Year-round air-conditioning is installed optionally, but most believe their ductwork is ample for future central a/c.

There are not many completed homes on the market. Only fifty-seven were unsold after three months; and just 125 had been completed and unsold 30 days prior to the survey.

Home costs tested

Has there been a reversal in the tendency of FHA to upgrade minimum property requirements? Some Detroit builders think so in the light of a recent statement by Wendell O. Edwards, local FHA director.

Said Edwards: almost any house built in the Detroit metropolitan area could be reduced from 15 to 30 per cent in price by deleting the items "added voluntarily by the builder for purposes of sales pro-

motion, public demand, or because of tradition or custom."

He based his claim on a random study of twenty-five homes being built in the area in various price ranges. Care was taken, he noted, that nothing substantial had been added by his office in these cases over minimum local FHA standards.

"We then," he added, "deleted from the cost of these houses, every item which the builder had included . . . over and above the minimum required by our rules. Results were, to say the least, astounding. We found almost any house . . . could be reduced from 15 to 30 per cent in price."

Edwards asked builders to give buyers a chance to purchase a lower-priced home by showing "stripped-down" models as well as the models currently being offered. He promised the FHA Detroit office would expedite appraisal requests on a new stripped-down plan for a house or a rework of a current FHA commitment for insurance.

There also was a possibility, he continued, that savings in land development cost might be effected in certain instances. If, for example, there was an isolated area or section of a project not suitable for \$15,000 homes, FHA land planning and subdivision departments might suggest methods of cutting site improvement costs.

Many builders, admitting they had introduced "gimmicks" in new models, said they will have to be continued. But, they conceded, a stripped house might appeal to some.



NEW BUILDER GROUPS: NAHB charter presentations to two Wisconsin associations were made by regional vice president R. A. Lainey, Milwaukee. Left photo: HBA of Watertown; (l. to r.) Albert L. Schachtner, president, HBA of Watertown; James Schmied, vice-president; LeRoy Tessmann, secretary-treasurer; and Lainey. Right photo:



Brown county HBA (l. to r.) Harold E. Bewick, past president, Wisconsin Builders Assn.; Joseph Shaffron, WBA first vice president; George Murphy, BCHBA president, Chester Christens, BCHBA treasurer; Lainey; Bernard Hart, BCHBA vice president; Alton Noel, BCHBA secretary; and Harris Evans, president, Wisconsin Builders Assn.



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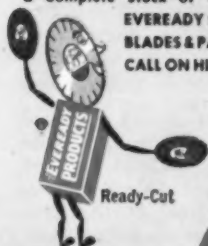
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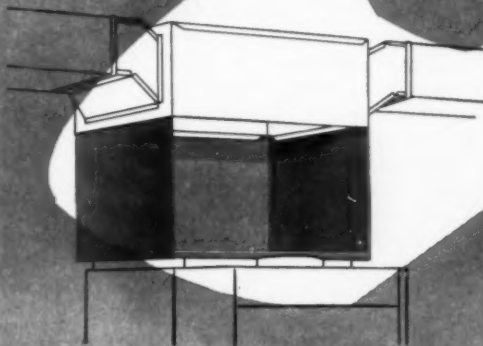
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How they build a best seller

Ohioans got a look last month at a city in the making. What they saw was the first completed part of what is expected to be one of the largest and most modern close-in, completely planned communities in the U.S.: a city of 10,000 named Forest Park.

The house shown here is one of several in the development, which includes designs ranging from \$14,000 up to \$60,000.

An estimated 10,000 daily visitors thronged to the three-day opening during the last week of September. Here the crowds viewed gala ceremonies attended by the governor of the state and other notables.

To date, about 300 houses have been put up, of which some 200 have been sold and occupied.

When completed, Forest Park will cover a 3,700-acre tract acquired 20 years ago by the federal gov-

ernment as the site of one of three huge "Greenbelt" communities. Neighborhoods will contain houses in similar price ranges cleverly divided and screened from other areas by means of natural land dividers such as ridges, streams, and planting.

Improved lots are available for sale to members of the home building industry as well as individuals who want to build their own custom homes. Lot sizes will vary according to the neighborhood and location from about 4,000 to 12,000 square feet.

What makes Forest Park different from the usual housing subdivision, according to builder Marvin L. Warner, president of Warner-Kanter Cos., developers of the area, is that "its economic justification has been subjected to intensive study by experts over a long period of time. The . . . property is fully protected against the intrusion of blight and deterioration."

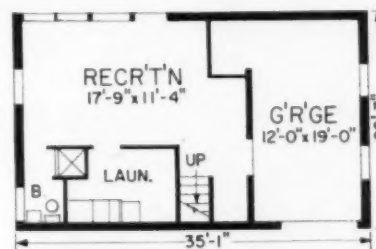
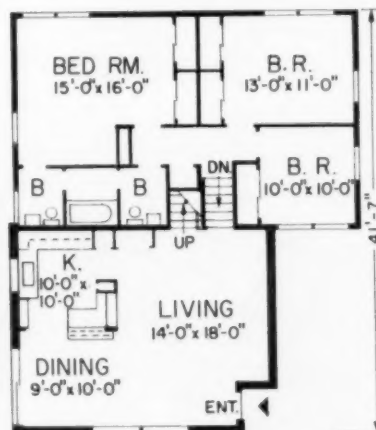
the MONTH for October



REAR DOOR of tri-level type shown on opposite page opens into family-recreation room with full-length windows facing lawn and woods. At extreme right is sliding glass door leading to living and dining room.

ON SAME LEVEL as recreation room are the laundry, utility room, and garage. Upper level contains three large bedrooms and twin baths. Third level, with living-dining room and kitchen, views landscaped terrace.

TRI-LEVEL "EDEN" is one of the most popular designs in the development. Price ranges from \$21,900 to \$23,000, varying with choice of roof lines, siding, materials, other construction details.



for a city-in-the-making



RECREATION AREA is planned as shown in scale model above. Located in nearby Winton Woods Park, it will provide parking space, swimming pool and kiddies' playground.



COMPACT KITCHEN features open design. Viewed from living room, curtained sliding-door-wall at extreme left leads to landscaped terrace.



Photos taken at the residence of Mr. and Mrs. Edward L. Ayers, New Smyrna Beach, Florida. Plans by David A. Leete, A.I.A., Daytona Beach, Florida. Drawers molded of BAKELITE Phenolic Plastic by Boonton Molding Company, Boonton, N. J.



Black-topped counters and stainless hardware harmonize with the shiny black molded phenolic drawers, set off the finish of wood panels. And, they clean with the wipe of a damp cloth.



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Above is a demonstration of their flexibility. Drawers have molded-in slots for compartmentation. Typewriter compartment has front painted to match molded drawers below.

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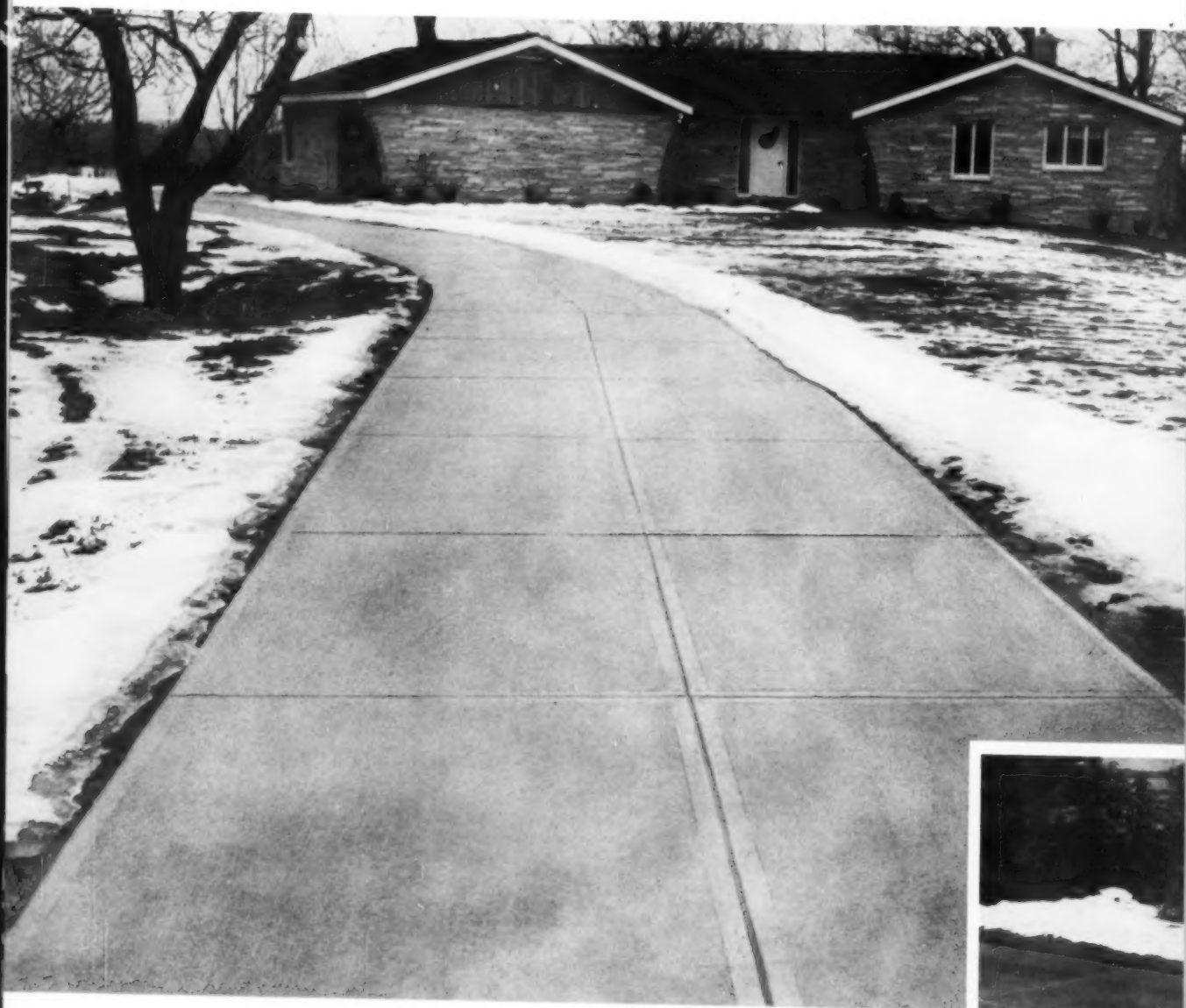
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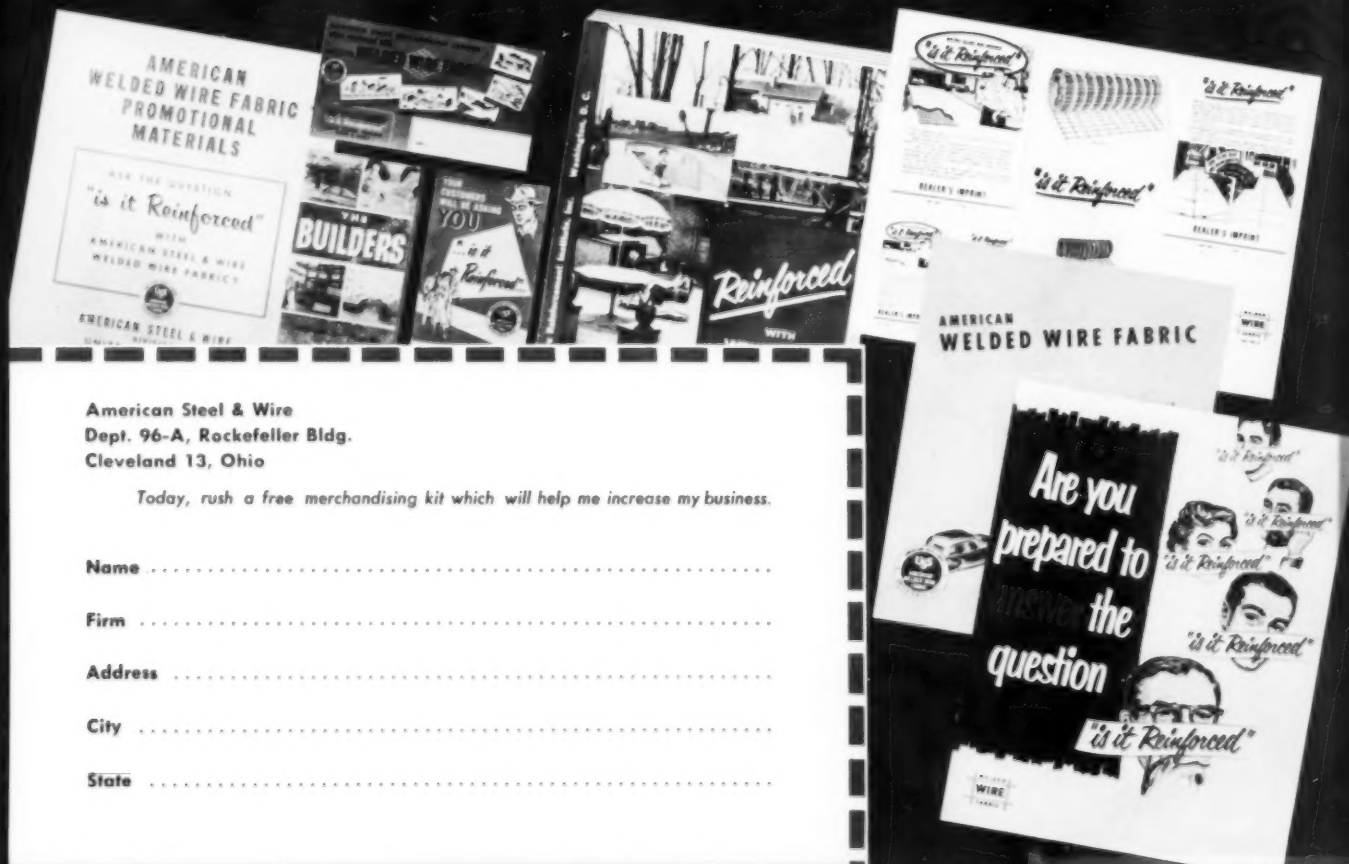
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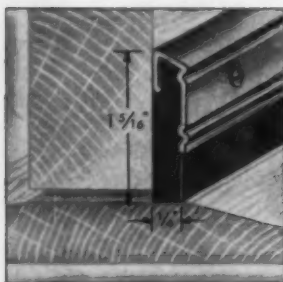


Numetal WEATHER STRIP

Sets for windows

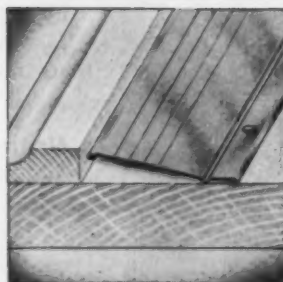
Handy to buy, handy to use. Here in one attractive package is a complete M-D Numetal Weather Strip set for a single window. Available for all standard 28", 30", 32" and 36" double hung windows. M-D packaged sets save selling time . . . cut handling costs . . . make inventory easy.

HANDY PACKAGED SETS! Ready to hand customers! Ready to use!



Numetal DOOR BOTTOMS

Made of extra thick wool felt and heavy gauge stainless steel, brass or aluminum. Standard lengths—28", 30", 32", 36", 42" and 48"—packaged 1/2 doz. same length to carton. Special lengths available.



On-GARD COIL

WEATHER STRIP

This stainless steel or bronze coil weather strip is packed two ways—six 18 ft. rolls in free display carton, or in 100 ft. individual cartons.



BUILDERS

For highest quality and dependability always specify M-D products. Sold by hardware, lumber and building supply dealers throughout the country!

DEALERS

Order Today! Your order shipped same day it is received! All M-D products are fast sellers, nationally advertised.



Nu-WAY

WEATHER STRIP

Easiest in the world to put on

This easy-to-put-on weather strip makes friends as it makes you profits. Works perfectly on windows, storm sash or doors. Made of wool felt and white metal. Each individual carton contains one 18 ft. roll with nails and instructions. Packed 12 cartons in display case.



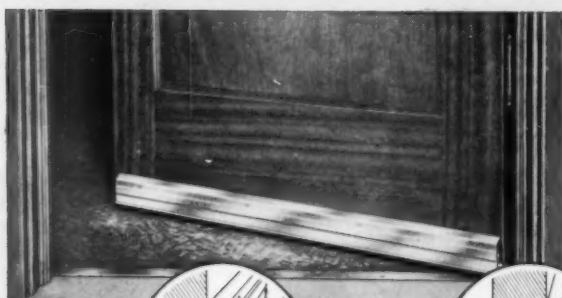
This free, colorful display case takes very little counter space . . . but does a big job of selling.



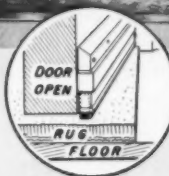
Nu GARD

Automatic DOOR BOTTOM

Here's the perfect automatic door bottom and draft eliminator for ALL doors. Completely solves old problem of clearing rug or floor every time door opens. Easily installed on right or left hand door. Smartly designed with silvery-satin finish—will not rust or tarnish. Furnished in standard lengths—28", 32", 36", 42" and 48". Packed in individual cartons.



UP automatically to clear carpet easily when door opens.



DOWN snugly against floor to seal out drafts when door closes.



Nu-CALK

CALKING COMPOUND

World's best calking compound available in loads, with or without nozzle . . . hand squeeze tubes . . . or ½ pt., pt., qt. and gal. cans. Also 5-gal. and 55-gal. drums—gun or knife grade.



Nu-Glaze

GLAZING COMPOUND

You can recommend this glazing compound with complete confidence that it always "stays put." Packed in ½ pt., pt. and qt. cans, 25 lb., 50 lb., 100 lb., and 880 lb. drums.



Nu-Phalt

PLASTIC

ASPHALT CEMENT

Ideal for sticking down asphalt shingles and general repair work on roofs and flashings. Comes in handy loads, with or without nozzle; 2½ lb. and 10 lb. cans; 50 lb. pails and 550 lb. drums.



MACKLANBURG-DUNCAN CO.

OKLAHOMA CITY 1, OKLAHOMA

Leaders in the Building Specialty Field for 35 years!





This bricklayer takes a Master B-100 heater with him on the scaffold and keeps working on the coldest days. Heater weighs only 78 lbs.

Master Makes It June in January

The Master B-100 portable heater takes the sting out of winter; lets you do all kinds of jobs *all* year round. Saves time lost to cold weather . . . you just plug it in the nearest electrical outlet and the heat pours out; costs only 12¢ an hour to run. This mighty furnace on wheels weighs only 78 pounds . . . is so compact one man can handle it easily, yet delivers 100,000 BTUs of *circulated* forced air heat every hour. Use it when pouring concrete, plastering, lathing, finishing. This Master goes almost anywhere a man can; moves from job to job in your car trunk. It's safe too . . . burns kerosene or No. 1 or 2 fuel oil so completely you don't even need a vent; will run overnight without attention. See your Master distributor or fill out and mail the coupon today for all the facts on the B-100 and larger models. No obligation.

MASTER VIBRATOR COMPANY, 358 Stanley Ave., Dayton 1, Ohio
Sure, send me the facts on how Master heaters can help me lick the cold weather problem. I'm interested in:

☐ Small Master B-100 Portable Heater ☐ Larger Master Portable Heater

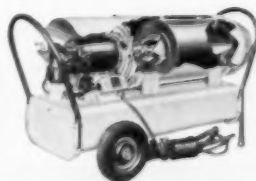
Name _____

Firm _____

Street _____

City _____

Phone _____



A compact furnace on wheels

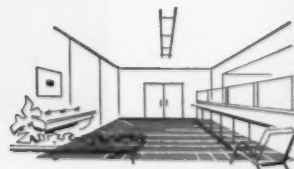
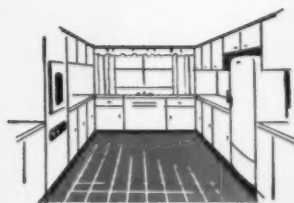
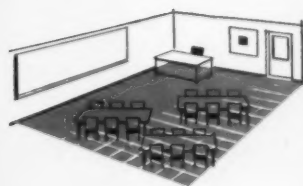
MASTER

AMERICAN BUILDER

there's more vinyl
in every tile of



FOR HOSPITALS
SCHOOLS • OFFICES
THEATRES • HOTELS
MOTELS • HOMES
BANKS • APARTMENTS



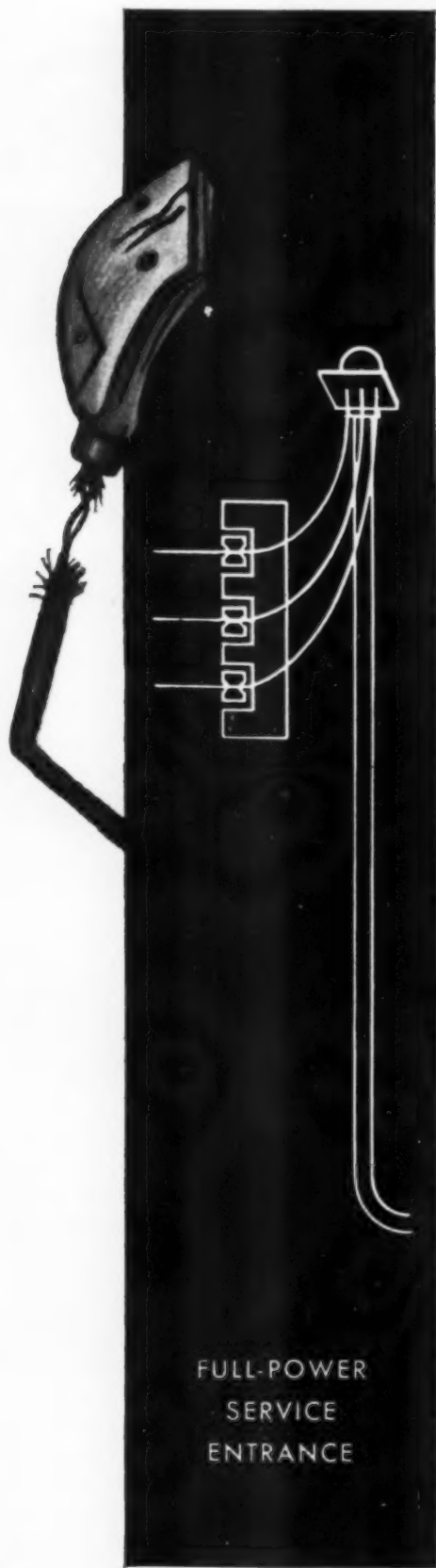
WEARS LONGER,
STAYS BEAUTIFUL LONGER,
... with or without waxing

Specifying floor covering can be touchy business . . . you can save, but be sorry! With the high percentage of vinyl in Bolta-Floor, you're sure of a more dense surface for greater wearability, easier maintenance as well as a rich natural lustre that lasts years longer, with or without waxing.

Bolta-Floor offers a full line in colors, sizes and gauges to meet every requirement. It's available in 22 smart decorator colors . . . 5 solid and 17 marbleized, in 4 tile sizes (6 x 6, 9 x 9, 12 x 12, 18 x 18), 2 roll widths (27" and 54") and in 3 gauges ($\frac{1}{8}$ ", $\frac{3}{32}$ " and .080).

For top quality and performance, specify Bolta-Floor and be sure.

The General Tire & Rubber Company, Flooring Division, Akron, Ohio



FULL-POWER
SERVICE
ENTRANCE



ENOUGH
CIRCUITS OF
GOOD-SIZED
COPPER WIRE

It takes 3 things to bar "Skimpy Wiring" from your homes!

Three things can keep "Skimpy Wiring," symbol of inadequate wiring, out of the homes you build. Just be sure their electrical systems are planned to have:

- 1) Full-powered service entrances of at least 100 amperes. (The minimum NAHB voluntary standard.)
- 2) Enough circuits of large enough copper wire to power every appliance used, even when other appliances are operating on the same line. Extra circuits, too, for the house to "grow on."
- 3) Plenty of outlets to put the power where it's needed, when it's needed. Plus handily located switches which allow a homeowner to safely "light his way through the house."

These are the *essentials* of modern home wiring. They add little to the overall cost of a house. They mean much to the electrically-minded homeowner of today. Plan for them . . . it pays!

FREE HOME WIRING WALL CHART!
Send today for Kennecott's handy wall chart showing typical home circuit loads. Use it as a check list when planning electrical systems. Write Kennecott Copper Corporation, Dept. AB106, 161 E. 42 St., New York 17, N. Y.



Kennecott
COPPER CORPORATION

Fabricating Subsidiaries:
Chase Brass & Copper Co.
Kennecott Wire & Cable Co.

PLENTY OF
OUTLETS AND
SWITCHES



1st
IN SPEED
IN PROFIT

AMERICAN SUPER 8

*serves the leading floormen
of the nation*

The American Super 8 leads in performance with twice the speed of Standard machines. The vari-speed drum transmission and drum speed dial selector are typical ahead-of-the-times features by American engineers so you can sand any floor quickly and at a profit.

43 **AMERICAN**
OFFICES
TO SERVE YOU ...
WHEREVER YOU ARE!

*...help you make more
money from sanding to
sealing on every job!*

Write for catalog on American
Super 8 and name and address
of your American Distributor.

★ See us at Booth 308
NAHB SHOW
Jan. 22-26



An exclusive line

For your convenience there is an American Distributor in every principal city, who specializes in American equipment, supplies and replacement parts. He's on the job every day to serve you!



Out on the job

A phone call will bring help from your American Distributor promptly ... equipment, supplies or expert advice. You'll find that with American Distributors, service is not merely a word but an action!



Guaranteed repairs

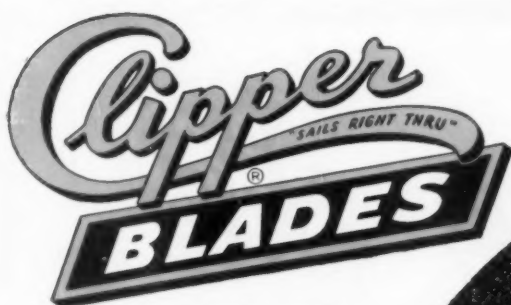
Factory-trained mechanics can quickly restore your American Machines to tip-top working order. It's a good plan to bring them in regularly for a check up. This avoids loss of machine-time in your busy seasons, assuring maximum year round profits!

THE **AMERICAN**[®]
FLOOR SURFACING MACHINE CO.
ESTABLISHED 1903

511 So. St. Clair St.,

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PERFORMANCE PROVED PROFESSIONAL MACHINES FOR CONTRACTOR USE • WORLD-WIDE SALES AND SERVICE



... BUY CLIPPER QUALITY FOR GREATER SAVINGS

Clipper made the world's first masonry saw nearly 20 years ago... Clipper makes the world's finest masonry saw today. Let Clipper's famous 5-DAY FREE TRIAL prove it to you!



LOOK for the BRIGHT ORANGE COLOR and the TRADEMARK CLIPPER



ABRASIVE

4 Out of 5
Buy Clipper
... Because
Clipper
Guarantees
Results!

Call your Factory Trained Representative for Same Day Shipment!

For lowest possible cost, look for the bright orange centers which identify genuine Clipper Superior Blades. Manufactured under the most advanced Quality Controls known to the industry — your assurance of consistent quality and peak performance rim to stub, and blade to blade.

● **ABRASIVE** Hard — Soft — Porous — Dense... Wet or Dry, there's a special Clipper Abrasive Blade to cut any masonry material, faster, better, with guaranteed lower costs. Clipper Quality is your Best Buy! SPECIFICATIONS FOR ALL POWER HAND SAWS.

● **BREAK-RESISTANT** Triple-Reinforced... in specifications to cut every masonry material... HARD to SOFT. A CLIPPER First! Polk-A-Dot design reduces side friction, delivers maximum power to cutting edge. Break-Resistant — safer — lower cost.

● **DIAMOND** Clipper Sells more because Clipper sells Quality. Blade after blade on tile to block, Clipper Diamond Blades outperform, outcut and outlast any other blade. Dependable... consistent quality. IF YOU DON'T KNOW DIAMONDS, KNOW YOUR MANUFACTURER!



MANUFACTURING CO., KANSAS CITY 8, MO.

Sold Direct by Factory Trained Representatives
From Factory Branches in Principal Cities — Coast to Coast.

• for GLAZED TILE
CONCRETE BLOCK
... BRICK and ALL
MASONRY MATERIALS

CLIPPER MASONRY SAWS



New SUPER MODEL CLIPPER Masonry Saws with 2 H.P. Continuous Duty Dust-proof motors, give More Production at Lower Cost. Super Models have heavier cutting heads, oversize bearings — heavy-duty blade shafts. For nearly 20 years Clipper Saws have been sold on FREE TRIAL. Try Clipper FREE on your job and get faster, lower cost cutting with Clipper's exclusive and Patented Features: SELECT-A-NOTCH... PRES-SURE EQUALIZER SPRING... WET OR DRY PUMP... WATER APPLICATION SYSTEM... ADJUST-A-CUT... HEAD LOCK. There's a Model for every budget, priced from \$265.

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CLIPPER MANUFACTURING CO.

2826 WARWICK • KANSAS CITY 8, MO. 305X

Send me complete information on:

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| <input type="checkbox"/> Genuine Clipper Diamond Blades | <input type="checkbox"/> Clipper Masonry Saws |
| <input type="checkbox"/> Break-Resistant Blades | <input type="checkbox"/> Clipper Concrete Saws |
| <input type="checkbox"/> Wet or Dry Abrasive Blades | <input type="checkbox"/> Send my Factory Trained Representative to see me. |

NAME _____

ADDRESS _____

CITY _____ STATE _____

MAIL COUPON TODAY!

CLIPPER CONCRETE SAWS



Call your Factory Trained Representative for a FREE DEMONSTRATION of a Clipper Concrete Saw. Let him show you how these and many other features are necessary for low-cost concrete sawing:

POSITIVE SCREW FEED raises and lowers cutting head smoothly without damage from bumps or scraping. Fingertip control at all times. Dash mounted for convenience. A "Must" when using new low-cost "GreenCon" Abrasive Blades, to compensate for diminishing blade diameters... 4 WHEEL 3-POINT NO-BIND BLADE SUSPENSION. SELF-PROPELLED mechanism for speeds up to 26 ft. per minute. PATENTED WATER APPLICATION supplies water to the cutting edge of the blade — just where it should be — regardless of the depth of cut. Guarantees fastest possible cutting and longest blade life.

WHAT HORSEPOWER Do YOU Need?

7½ - 14.6 - 25 - 36?

Yes... Clipper has the Horsepower... gasoline and electric for all your concrete cutting jobs. Use Clipper Concrete Saws for light work, or heavy production cutting on highway and airfield construction... road and street repair... trenching... patching... industrial plant maintenance... sawing before breaking... sawing openings for machinery bases... sawing stone or refractory slabs. Write for information to convert your present Clipper Masonry Saw to a Concrete Saw.



The woman you want
to sell...is already sold
on this monogram

ring up sales with **the big plus** that only G-E home heating and cooling gives you

And don't forget the magic part General Electric's quality products play in your sales picture. Example:—the super-efficient "Builder Special" G-E gas furnace. You can boast automatic, fast heat, clean heat—and tell a great economy story to the home buyer. Hitch these selling points to the world-famous G-E monogram—on your site signs and in your ads—and you'll have the big plus that will ring up the sales.

So get in touch with your General Electric

dealer now. He's listed in the Yellow Pages of the phone book. He'll talk builder's language with you—specifically...costs, economical installation, savings and profits.

HOME HEATING AND COOLING DEPT., TYLER, TEXAS.

Progress Is Our Most Important Product

GENERAL  ELECTRIC



Avoid "nailpox" and unhappy customers with ALCOA® ALUMINUM NAILS

Nonrusting... Nonstaining... You won't ever have to explain away "nailpox" caused by rusting and staining when you use Alcoa Aluminum Nails. They're nonrusting, and nonstaining, and should always be used for siding, roofing, shingling... or any job where nails are exposed to the weather.

Now, for your convenience, Alcoa Aluminum Nails are packaged in handy amounts based on the application and size of job. There's no waste, no buying of excessive quantities—you get the exact amount you need. ALUMINUM COMPANY OF AMERICA, 2252-K Alcoa Bldg., Pittsburgh 19, Pennsylvania.



**Your Guide to the Best in
Aluminum Value**



THE ALCOA HOUR
TELEVISION'S FINEST LIVE DRAMA
ALTERNATE SUNDAY EVENINGS

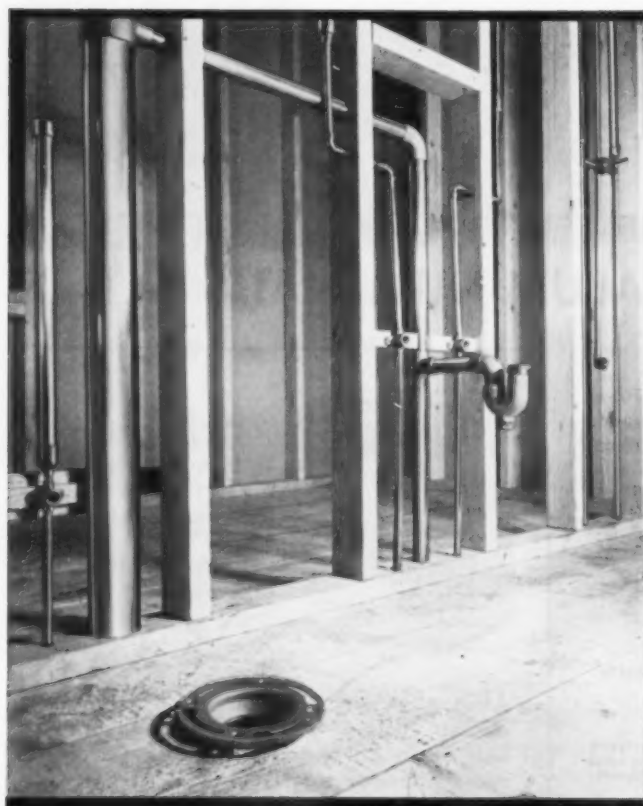


Enhance your reputation for using quality materials in your homes... always specify Alcoa Aluminum Nails packaged in this box.

Alcoa Aluminum Nails and Fasteners are available nationally through Macklanburg-Duncan Co. and leading wholesalers of other Alcoa Aluminum products.



**it pays to offer your clients
that "extra" in
modern home construction
an ALL-COPPER
DRAINAGE SYSTEM**



The fact that modern conveniences help sell houses has been proven by builders and architects throughout the country. Many of these extras "leap to the eye" . . . built-in ovens, automatic furnaces, air conditioners, washer-drier combinations, even automatic garage doors. But a more basic convenience, and one that costs only a trifle in comparison, is an all-copper water supply and drainage system. By specifying Streamline[®] copper tube and fittings for drainage as well as for supply, you give your client an installation that will last the life of the building and will be free of the repairs and annoyances that plague old-fashioned plumbing. Streamline installations are free-flowing and practically clog-proof . . . there are no caulked joints to leak, no rust damage to worry the home-owner. In addition, you can show your client a beautiful smooth copper-and-bronze system that's as modern in appearance as it is in function. It may cost more to use copper throughout, but the extra cost is negligible in view of the sales appeal and practical advantages. Contractors often report that the finished job costs less with Streamline tube and fittings, because of the shorter installation time and the fact that our compact 3" stack fits into a standard 2" x 4" partition, eliminating the need for furring.

REMEMBER—The advantage of using all-copper Streamline tube and fittings is worth many, many times the small extra cost! Write today for information kit No. 15 containing the detailed story of copper for drainage.

MUELLER BRASS CO.

PORT HURON 84
MICHIGAN

THE GENERAL * SAYS



THE *Big Difference* IS
**SPECIALIZED SERVICE
TO BUILDERS**

**THRU RESPONSIBLE, LOCAL
DISTRIBUTORS**



Meet

GENERAL BRONZE

**THE ONLY 5-STAR GENERAL IN
THE ALUMINUM WINDOW FIELD**

- ★ **Advanced Product Design**
keeps you ahead of competition
- ★ **Trouble-Free Engineering**
eliminates costly complaints
- ★ **Specialized Service to Builders**
thru responsible local distributors
- ★ **Dependable Deliveries**
from complete stocks in every area
- ★ **Continuous Advertising**
creates ready customer acceptance



ALWINTITE

aluminum WINDOWS and DOORS

by **GENERAL BRONZE CORPORATION**

ALWINTITE DIVISION — GARDEN CITY, N. Y.

In our book, **SERVICE...GOOD, DEPENDABLE SERVICE...** is something every builder is entitled to.

And that's why ALWINTITE distributors are selected primarily on their ability to give you unexcelled service. They must not only be rated "Tops" and enjoy a reputation for reliability and integrity, but they must also: (1) carry complete warehouse stocks; (2) give fast, dependable delivery service; (3) have factory-trained personnel ready to help you with your window problems at any time.

ALWINTITE window and door products are engineered to enhance your reputation as a quality builder, — to reduce installation time, and to give trouble-free service. That's why you can always depend on ALWINTITE—products of General Bronze, world's foremost producer of aluminum windows. For latest catalog and name of nearest distributor, write to ALWINTITE DIVISION, GENERAL BRONZE CORP., Garden City, N. Y. Attn. Dept. AB-5610.



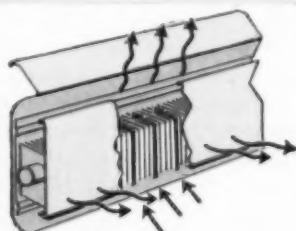
They're tops for control of comfort everywhere



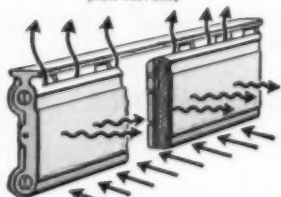
LIVING ROOM: Comfort while you relax . . . also a solution to the picture window problem. Place your furniture where you please.



DINING ROOM: Comfort at mealtime . . . uniform temperature at sitting level.



National-U.S. Art Baseboard
(non-ferrous)



National-U.S. Radiant Baseboard
(cast iron)

Comfort is a basic feature of today's modern home. Builders everywhere recognize the sales and profit advantages of comfort features.

And one of the most important comfort features that makes any home more liveable, salable, and profitable is control of the *right* temperature in *every* room—at all times.

National-U.S. Baseboard Heating Systems provide the *right* temperature . . . control of delightful living in each room . . . and they supply it efficiently and economically. Write for complete information today.

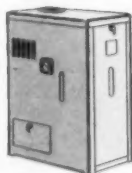
National-U.S. Baseboard Hot Water Heating Systems



BEDROOMS: Comfort at sleeping time and at dressing time . . . control of temperatures to your choice.



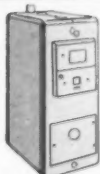
BATHROOM: Comfort at bath-time . . . even temperature without sacrificing floor space.



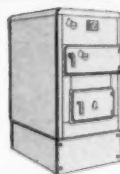
National-U.S.
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National-U.S. Packet
All-in-one, automatic
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For gas or oil firing



National-U.S.
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for Automatic Firing



National-U.S.
Residential Steel Boilers.
Sizes to meet all needs



National-U.S. Baseboard Heating Systems work to highest efficiency when they are supplied by National-U.S. Hot Water and Steam Home Heating Boilers. There are styles and sizes for every residential requirement.

National-U.S. Systems also assure an ample automatic year 'round supply of domestic hot water for kitchen and bath—at no extra cost. They are also ideal for use with snow-melting systems in addition to temperature zoning and cooling.

*Write for bulletins on National-U.S.
Boilers and Heat Distributing Units.*



National - U.S. Radiator
CORPORATION

HEATING AND AIR CONDITIONING DIVISION
Johnstown, Pennsylvania



Ten thousand square feet to be covered with a polyethylene moisture barrier. The bed of sand has already been prepared as the film is laid out.



The first seam is started. A 6-inch overlap, taped or stapled is satisfactory.



The polyethylene film is pulled into position. Being tough and flexible, few men are needed to handle the light weight membrane.



Completely in place, steelwork is already being laid in preparation for pouring concrete for the slab.

Data courtesy of Wilson Lumber Co., San Antonio, Tex., distributors for "Visqueen Polyethylene Film" made by **The Visking Corporation**, Terre Haute, Ind.



Work moves fast with this simple electric sealer. Each 32-foot wide strip of polyethylene is joined to its neighbor.



The final seam is completed. Pipes and electrical outlets protrude through holes cut in the film. They are then wrapped tightly in small sheets of film and sealed with the main barrier.

Here's how it's done . . .

A lifetime moisture barrier in only 2 $\frac{1}{4}$ hours

Polyethylene moisture barriers are tough and long-lived . . . go in fast with a big saving.

Today, more and more architects and builders are turning to film made of BAKELITE Brand Polyethylene for a variety of moisture barrier applications. Polyethylene film is very light in weight, requiring fewer men for installation. Flexible in the most extreme cold, it is tough, unaffected by chemicals and easily sealed by

heat, staples or tape. This application, developed by The Visking Corporation, is ideal for waterproofing almost everywhere . . . for protecting materials and equipment from weather . . . even for dustproofing in walls and subflooring.

Why not find out about using film made of BAKELITE Brand Polyethylene in your next building? Your building supply dealer has complete information, or write Dept. QE-5.

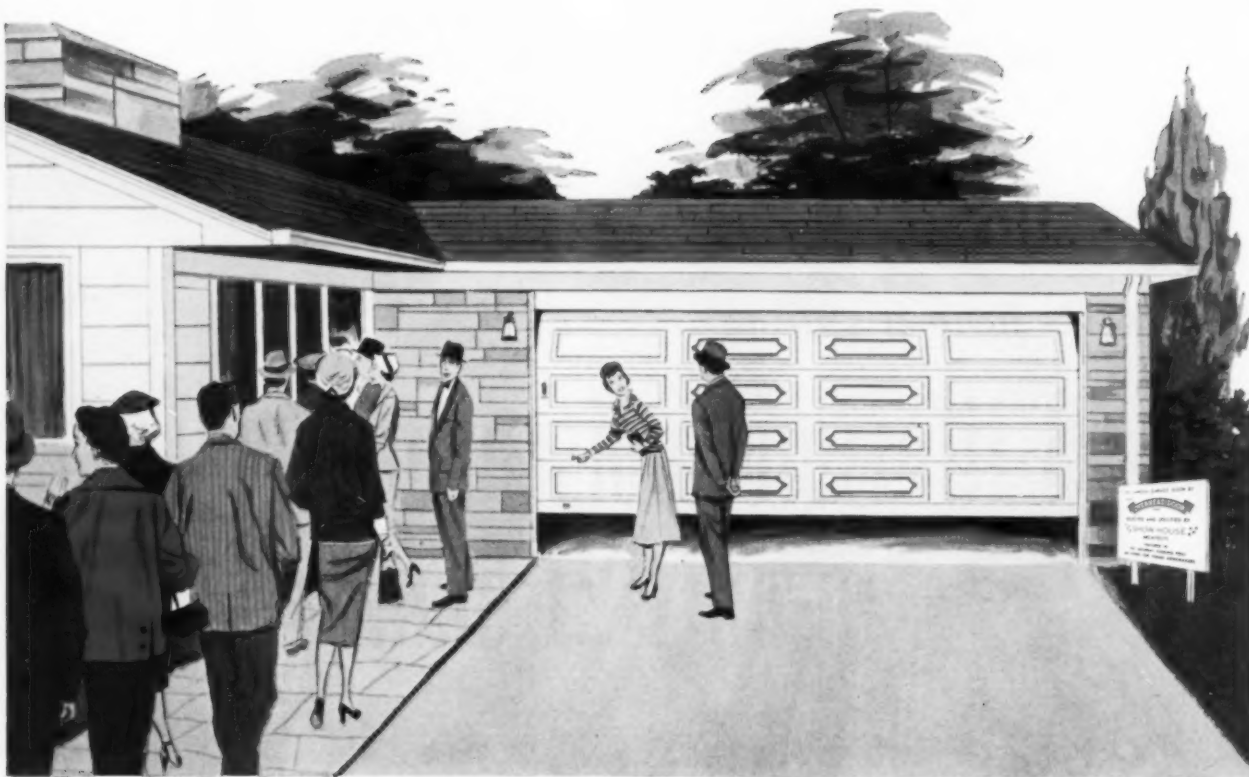
*It pays to specify
film made of*



BAKELITE COMPANY, A Division of Union Carbide and Carbon Corporation UCC 30 East 42nd Street, New York 17, N. Y.
The term BAKELITE and the Trefoil Symbol are registered trade-marks of UCC

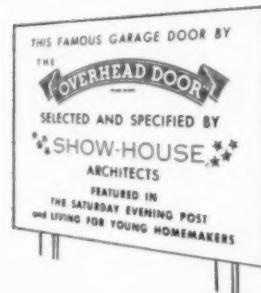
For 35 Years...

More people



The famous brand-name door that helps builders sell more homes!

- Feature The "OVERHEAD DOOR" in your Model Home to dramatize and demonstrate today's outstanding *living* convenience
- Let the 100 sq. ft. (or more) of The "OVERHEAD DOOR" be your point-of-sale *proof of quality* for the entire house
- Use the modern magic of The "OVERHEAD DOOR" with Ultronic operator to draw more people to your Open House
- Write for details concerning our cooperation in providing this push-button miracle with America's foremost garage door



COPYRIGHT 1958, O. D. G.

have bought

THE



than any other brand!

**And, in 1956, more people
are buying The "OVERHEAD DOOR"
than ever before!**

Only The "OVERHEAD DOOR" offers builders so many advantages . . . so much service!

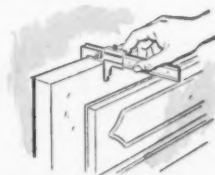
COMPLETE RESPONSIBILITY for the satisfactory performance of The "OVERHEAD DOOR," wherever installed, is assumed by Overhead Door Corporation and its distributors. Each installation is guaranteed for one year, service provided whenever needed, and parts available on 24-hour notice.

The "OVERHEAD DOOR" is advertised in full color in *Saturday Evening Post* and *Living*, and is the only garage door specified by Show-House architects in these publications.

**A complete line of doors —
including Ultronic operation — in a
complete range of styles and prices.**



Widest variety of styles—standard patterns, individualized designs—is offered by The "OVERHEAD DOOR."



Top quality materials, the most expert craftsmanship make The "OVERHEAD DOOR" America's finest garage door.



Fast delivery, installation of The "OVERHEAD DOOR" helps keep jobs on schedule . . . keeps customers satisfied.



Guaranteed against defective materials and workmanship for one year; expert service available any time, anywhere.

America's pioneer and leader in upward-acting garage doors

OVERHEAD DOOR CORPORATION
Hartford City, Indiana

MANUFACTURING DIVISIONS

Hillside, N. J. • Nashua, N. H. • Cortland, N. Y. • Lewistown, Pa. • Oklahoma City, Okla. • Dallas, Tex. • Portland, Ore.



2,000 HOMES
in
Kingston Estates
are being equipped with
AllianceWare®

Planned as a community of over 2,000 moderately-priced homes, Kingston Estates is now under construction in South Jersey. The developers offer five designs to provide a home to meet the needs of every family.

Over 500 homes have been occupied, with 150 now under construction. Featured in the homes are ample living areas, a powder room, 3 or 4 bedrooms and two ceramic tile baths. Smaller homes have one bath and powder room.

All sanitary ware fixtures are AllianceWare—porcelain-on-steel. Bathroom fixtures are in color—powder room fixtures in white.

For high quality at reasonable cost . . . for modern design in a wide choice of color and white . . . for lifetime beauty of stainproof enamel . . . and for bathtub units in recess, corner, or "junior" small space sizes, an increasing number of architects and builders choose AllianceWare. If you are not familiar with all advantages of AllianceWare, write for complete catalog.

ALLIANCEWARE, INC. • Alliance, Ohio

Bathtubs • Lavatories • Sinks • Closets

Plants in Alliance, Ohio; Colton, California; Kilgore, Texas



**Kingston Estates • Delaware Township,
Haddonfield, N. J.**

Builder: Goodwin Housing Corp.

Plumbing Contractor: Harry Dobkin & Sons

AllianceWare furnished by J. Levitt, Inc.



AllianceWare
PORCELAIN ON STEEL

Now...

MENGEL **DOORS** with **MATCHING** **GOLD COAST** **CHERRY** **PANELS**

It had to happen! The tremendous response to Mengel Doors in rotary-cut Gold Coast Cherry demanded matching plywood panels.

Now they're here—satin-smooth panels with all the beauty of this exciting wood imported from Mengel's exclusive African concession—but still priced lower than many other hardwoods!

See for yourself—ask your dealer to show you samples.

Door Department, The Mengel Company,
Louisville 1, Kentucky.

*Mengel Doors equal or exceed the requirements of
Bureau of Standards specifications CS 200-55*



CUT FROM OUR OWN
EXCLUSIVE TIMBERING
CONCESSIONS

FOR ECONOMICAL, SPEEDY BUILDING -

for **QUALITY** and **UTILITY**
that helps sell homes faster--

NATIONALLY KNOWN
NATIONALLY ADVERTISED

Majestic

FOR NEARLY HALF
A CENTURY

BUILDING PRODUCTS WHOLESALE DIVISION



Majestic CIRCULATOR FIREPLACE

A heat-circulating fireplace that includes all necessary components, properly engineered, and serves as a masonry form. New extended size range! New super-tight, rigid damper valve holds positively in any degree of opening. Full smoke dome. "Radiant Blades" assure greater heat circulation and add to strength of firebox walls.

Send for Catalog SCC-56



Majestic INCINERATORS

Complete indoor disposal convenience for both burnable trash and garbage. Models for every market—economical basement models in which the waste itself is the only fuel needed, and handsome gas-fired utility room models, using either natural or bottled gas, approved by A.G.A. Unique, patented downdraft action!

Send for Catalog SIC-56



Majestic FIREPLACE DAMPERS

Cast iron or formed steel, with breakproof steel valve plate operated by a patented, foolproof poker control. Properly engineered for full throat opening, close tightly to seal flue when fireplace is not in use.

Send for Catalog SCC-56



UNDERGROUND RECEIVERS

An "extra" that home buyers appreciate... this neat, sanitary way to keep refuse out of sight. Only the lid, with toe-tip lift, shows above ground. Cans and bottles, or garbage, are kept pest-free and odor-tight. Durable steel—easy to install.

Send for Catalog SOF-56

Majestic CLEANOUT DOORS — ASH DUMPS

Majestic's formed steel and cast iron cleanout doors answer the builder's need. Model 80-R is typical—integral hinge on tight-fitting recessed door, handy latch, wide frame for neatness, die-flanged edges for strength. Ash dumps are available in steel or cast iron.

Send for Catalog SCC-56

Majestic BUILDING PRODUCTS

Quality-constructed products to help build better homes at lower cost—steel coal chutes; steel window wells with grating; cast iron and steel fireplace bases; cast foundation grates; and others.

Send for Catalog J-16

HEATING AND AIR CONDITIONING DIVISION



Majestic WINTER AIR CONDITIONERS

Gas-or-oil fired, forced-air furnaces for complete winter home comfort. Units for closet, alcove, utility room or basement installation, in up, down, or horizontal flow design. Capacities range from 76,000 to 400,000 BTU output. In addition, Majestic also furnishes a complete line of pipe, fittings, and accessories for forced-air heating and cooling.

Send for Specification Sheets

Majestic THULMAN CHIMNEY

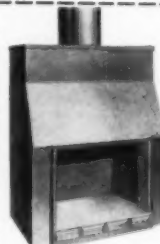
The all-metal chimney that hangs on joists for economical, time-saving installation. UL-listed for all fuels and for zero clearance from combustibles because it has ample clearance built in. Chimney tops are realistic wire-cut-brick embossed aluminum, painted brick-red with gray mortar lines, with tile-like rain cap.

Send for Form S-H

SUMMER AIR CONDITIONING

With Majestic Air Conditioning, system-matching is made extremely easy. The 2, 3, and 5-ton capacity units are available as self-contained, water-cooled companion units, or as evaporator units with remote air-cooled compressor-condenser. Unique system-switching and dampering!

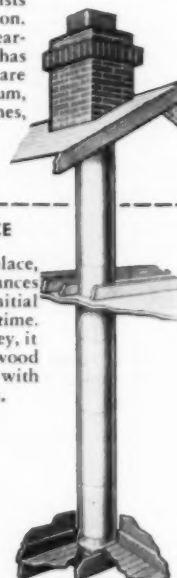
Send for Specification Sheets



THULMAN FIREPLACE

A UL-approved fireplace, with required clearances built in to save on initial cost and installation time. Complete with chimney, it can be installed on a wood floor and framed in with ordinary construction.

Send for Form TF-2



Write Today!

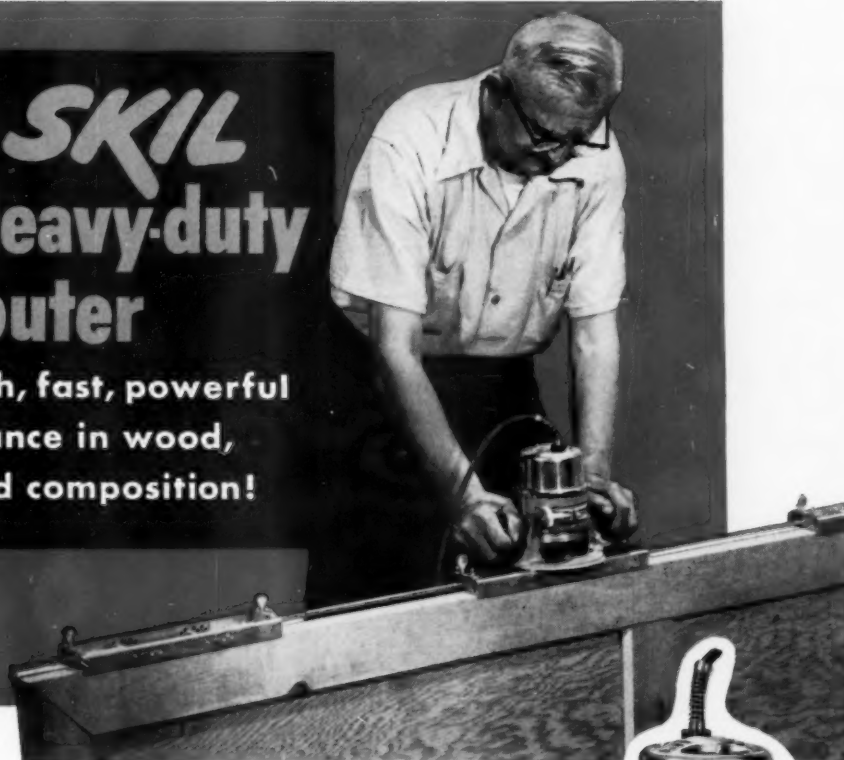
The **Majestic** Co., Inc.



433 Erie Street, Huntington, Indiana

New SKIL 3/4 h.p. Heavy-duty Router

Gives smooth, fast, powerful
performance in wood,
plastic, and composition!



Here's the perfect answer to every contractor's or carpenter's routing needs! New SKIL Model 297 Router is lightweight, easy-handling, smooth-cutting...delivers more than enough power for routing out sink tops, grooving in shelves, dadoing, beading, rabbeting, mortising, veining, and cove cutting... handles a wide range of decorative

cutting jobs fast and accurately! Time-saving, worksaving new hinge-butt template kit brings new speed and simplicity to door and jamb mortising when used with Model 297. No calculations or layout required!

Check the new exclusive SKIL Router features. Let this powerful new SKIL tool help speed production and cut costs for you!

- **Super-powered motor** maintains highest working speed for smoothest and most accurate cutting under all conditions.
- **Exclusive type spindle lock** located on collet chuck for greatest convenience. Requires only one wrench for bit changing!

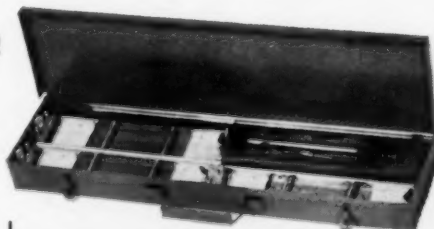
- **Handy depth adjustment.** Controls always stay in same working position.
- **Exclusive plastic chip guard** for extra safety! Fits either side.
- **Tough plastic sub-base** of "high-impact" polystyrene. Protects finished surfaces against marring.



SKIL 3/4 H.P. Model 297
 • 23,000 r.p.m.
 • All precision ball bearings
 • 6 1/2" high, overall
 • Net weight, only 5 3/4 lbs.
 • Price—only \$57.50

NEW-DESIGN SKIL HINGE-BUTT TEMPLATE KIT!

Eliminates measuring, complicated calculations and layout! Jamb pins automatically position templates... no nailing of temporary door stops before routing. Speeds and simplifies hinge mortising of doors and jambs.



FREE!

Ask for free demonstration and free trial! Call your nearest SKIL Distributor—or mail coupon for information!



Made only by SKIL Corporation, formerly SKILSAW, Inc.
Factory Branches in ALL Leading Cities

MAIL THIS COUPON

SKIL Corporation, Dept. AB-106
5033 Elston Avenue, Chicago 30, Illinois
In Canada: 3601 Dundas St. West, Toronto 9, Ontario
☐ Please send full information on SKIL Model 297 Router.
☐ I would like a free demonstration of SKIL Model 297 Router.

NAME

COMPANY

STREET

CITY ZONE STATE

How **COPPER TUBES** make installations of sanitary drainage systems easier and faster in this 200-home low-cost housing development.

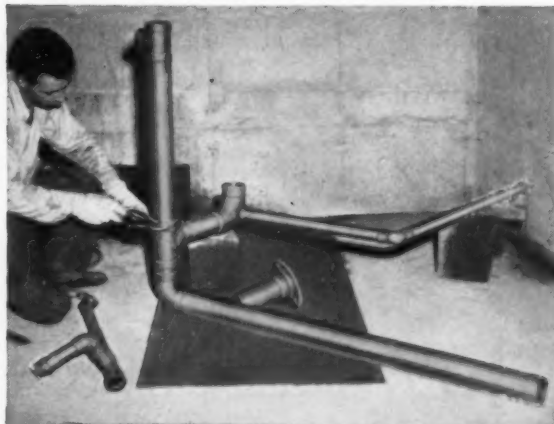


Easier, faster handling: The section, comprising about 13' of copper tube and 5 solder-joint fittings, weighs only 35 pounds, is handled by one man.



Fewer joints and fittings: Copper tube comes in standard 20' lengths. A 20' length of 3" Type M weighs only 53 pounds. Easy to cut, too.

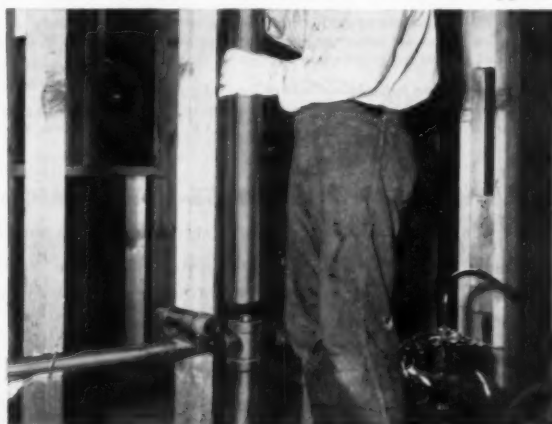
Write for booklet, "Copper Tubes for Sanitary Drainage Systems." The American Brass Company, Waterbury 20, Conn. In Canada: Anaconda American Brass Limited, New Toronto, Ont.



Pre-assembly saves time, cuts cost: The basement lines are assembled and soldered ready for installation as soon as first floor partition studding is completed.



Fast, dependable connections: Solder joints are easy to make and they stay tight. The circular torch shown is a big time saver on a large job like this. (Water lines are also copper.)

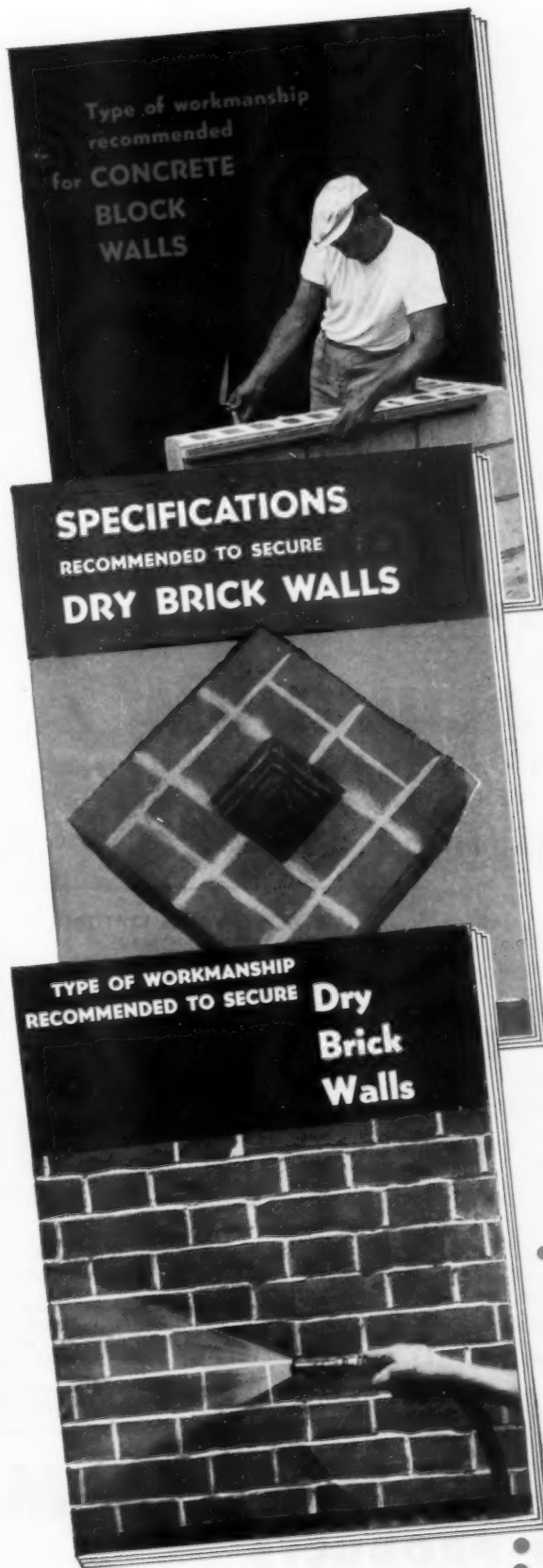


No costly, space-consuming plumbing walls: A 3" copper tube stack with fittings can be installed within a standard 4" stud partition.

6814

ANACONDA[®] COPPER TUBES

Available through plumbing wholesalers



GET THESE IMPORTANT BOOKS!

THE three books at the left are a "must" for anyone who is interested in good masonry construction. One describes the type of *workmanship* recommended to secure dry brick walls. The second describes the *specifications* recommended to secure dry brick walls. The third describes the type of workmanship recommended for good concrete-block walls.

Each of these books has been endorsed by foremost authorities. Each has received a citation of merit from the Producers' Council and the American Institute of Architects. Each is fully illustrated, clearly written. Each contains a wealth of really valuable information.

These books are *not* advertisements for our product, Brixment. They are published and made available to members of the building trades solely as an industry service. Mail the coupon, *today*, for your free copies.

LOUISVILLE CEMENT COMPANY, LOUISVILLE, KY.

Manufacturers of
BRIXMENT FOR MORTAR

Louisville Cement Company—Dept. 1
Second and Walnut Streets, Louisville 2, Kentucky

Gentlemen:

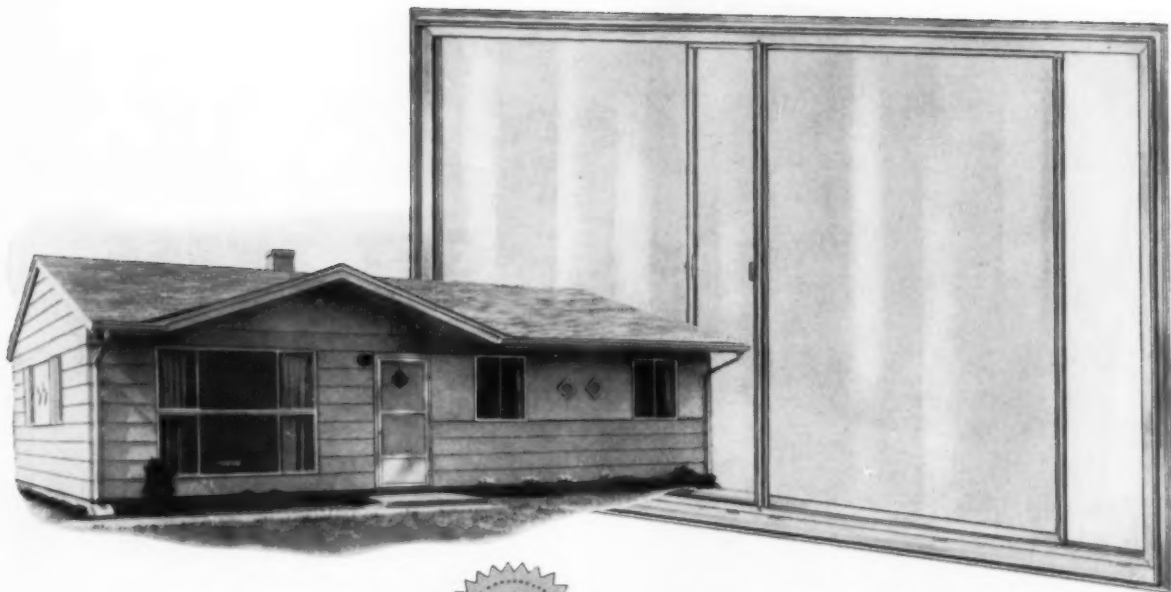
Without cost or obligation, please send me a copy of each of your three books on masonry construction.

Name

Firm

Street

City State



DOUGLAS
—THE MILLION DOLLAR BONDED HOME CO.



HOMES *feature...*
SPRINGFIELD, ILLINOIS

REYNOLDS ALUMINUM TRAVERSE (SINGLE SLIDING VENT) WINDOWS WITH INTEGRAL FIN TRIM

In all of its homes, throughout a wide choice of designs, the Douglas Homes Company of Springfield, Ill., features Reynolds Aluminum Traverse Windows... with lift-out vents that clean easily and screens that may be installed and locked from the inside.

This is the 5200 Series, with integral fin trim. Its amazingly simple installation, combined with low basic price, cuts the builder's cost. Yet it stands out as an extra-value feature for the homeowner.

It carries to a new height the inherent superiorities of aluminum windows: lasting beauty without painting, freedom from rust, rot and warp.

Look at the details of this window... precision-engineered by Reynolds, with quality controlled from bauxite ore to "satinized" finish. For literature write to **Reynolds Metals Company**, Window Division, 2019 S. Ninth St., Louisville 1, Kentucky.

See Reynolds great new series, "CIRCUS BOY", Sundays, NBC-TV Network.

OTHER EXTRA-VALUE FEATURES FOR YOUR HOMES



Reynolds Lifetime Aluminum Gutters And Downspouts

Rustproof durability and handsome design in rain-carrying equipment... at low cost. Ogee embossed in 4", 5", 6" sizes. Half-round in 5" and 6".

Reynolds Lifetime Aluminum Flashing. .019" thickness meets FHA requirements. Rustproof and non-staining. Looks better and costs less. 14", 20" and 28" widths.



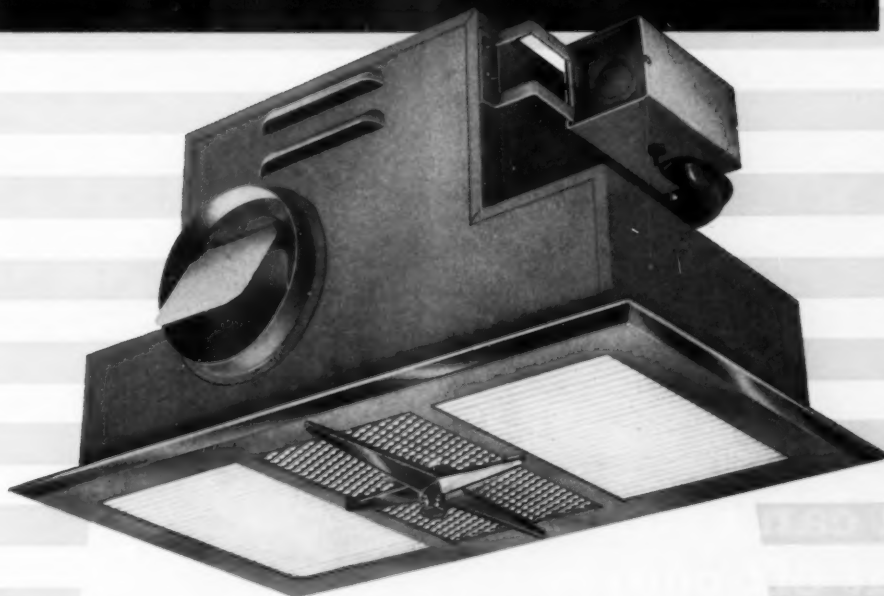
Reynolds Aluminum Reflective Insulation and Vapor Barrier

Developed especially for professional use... foil asphalt-mounted to one or both sides of tough 40 lb. kraft paper. Rolls of 250 and 500 sq. ft., 25" and 36" widths.

For literature write to Reynolds Metals Company, Building Products Division, Louisville 1, Kentucky.

REYNOLDS ALUMINUM BUILDING PRODUCTS

**THE RIGHT UNIT for inside bathrooms
... UNDER FHA REQUIREMENTS**



TRADE-WIND LIGHT/VENTILATOR COMBINATION

Here's the perfect answer — in one inexpensive unit — for light and ventilation in inside bathrooms under FHA requirements (and outside ones, too!)

Trade-Wind Model 1701 Combination Light/Ventilator is a beautifully designed flush-type ceiling unit. Two 75-watt lamps provide brilliant illumination. And the time-tested Trade-Wind 100 CFM blower unit assures complete ventilation—for both inside and outside baths—eliminating steam, lingering dampness and odors.

Model 1701 installs between joists and the single unit cuts installation expense. The unit also includes a backdraft damper and is pre-wired, further eliminating extra work in running asbestos leads or installing a separate shutter. It can be wired to a single switch as required by FHA for inside bathrooms or 3 wires run to a double switch. The Trade-Wind Time-Delay Switch also can be used.



Powerful Bathroom Ventilator

This compact Trade-Wind Model 1201 Ventilator installs in the ceiling for complete bathroom ventilation. Can be wired with separate light to single switch as required by FHA for inside bathrooms. 100 CFM. Built-in backdraft damper. Optional white enamel or bright chrome grille.

Trade-Wind Motorfans, Inc. 7755 PARAMOUNT BLVD., DEPT. AB, RIVERA, CALIF.

**even
blindfolded .**

**you can't run
a cut off course ...**

Now straight cuts come automatically — with MAXAW's exclusive True Course Guide! Follows the cut like a rudder to assure straight-line sawing... keeps cut open, prevents binding or stalling, speeds cutting, saves motor. MAXAW offers 8" blade performance with a 7¼" blade — deeper angle cuts with less weight and bulk, twice as many sharpenings per blade, easier handling. Heavy-duty dynamically-balanced Cummins-built motors assure top power, compactness and dependability. Let MAXAW speed your construction jobs — see your Cummins dealer now!

Cummins® MAXAW®

MAXAW 7800

100% ball and roller bearing construction! Only 7¼" saw with 8" cutting capacity...cuts 2½" at 45° angle!

\$79.95

MAXAW 757

100% ball and roller bearing construction! 6¾" blade cuts 1¾" at 45° angle!

\$69.95

Prices slightly higher in Canada

Exclusive
True Course
Guide



**FINGER-TIP DEPTH
ADJUSTMENT** gives
instant depth control



**FINGER-TIP BEVEL
ADJUSTMENT** simple
lever, calibrated quad-
rant for any bevel cut



BLADE SIGHTING SLOT
view cutting edge at any
angle... **CALIBRATED
RIP FENCE GUIDE** assures
accurate cuts



SAFETY GUARD re-
tractable, telescop-
ing, with safety grip

Cummins Portable Electric Tools

5055 N. Lydell Ave., Milwaukee 17, Wis.

Please send me more information on Cummins MAXAWS!

Name

Address

City Zone State

© 1956 J.O.M.C. Made by *John Oster* Manufacturing Co.

here's
a
Silent
Salesman
that Really Sells!



CEDAR *Lined* CLOSETS



This seal of quality identifies ready-to-use closet lining produced only by the Aromatic Red Cedar Closet Lining Manufacturers Association. It is your guarantee of quality.

It's the plus features that help sell homes today . . . such items as larger kitchens and ample storage space, with all closets cedar lined. These features add-up to greater sales and profits for you.

Because they add colorful eye-appeal and a delightful fragrance, Aromatic Red Cedar Lined Closets attract buyers . . . sell buyers! Your closing time is less.

And you'll be amazed at the low cost. In most original construction, home builders report that installation of Aromatic Red Cedar Lined Closets add little or no additional costs . . . yet add at least \$100.00 in appraisal value.

Before you plan your next project, make sure you check the extra profits of closets lined with Aromatic Red Cedar.

AROMATIC RED CEDAR CLOSET LINING MANUFACTURERS ASSOCIATION

221 N. LaSalle St. • Chicago I, Ill.

How builders can profit from big change in roof construction

Roof deck over open beam construction increasingly popular with home buyers



1. TEMLOK ROOF DECK SAVES UP TO \$250 PER HOUSE, SLICES LABOR TIME 50%

When you build with the new Armstrong Temlok Roof Deck, you're assured faster, simpler construction . . . with savings up to \$250 per house. That's because Temlok Roof Deck is a 4-in-1 material. It provides strong decking, complete roof insulation, vapor barrier, and finished ceiling in one installation. Your men have less material to handle, do less sawing and nailing, leave less waste. As a result, a 30' x 40' roof can be applied in 12 man hours compared to 24 with conventional materials.



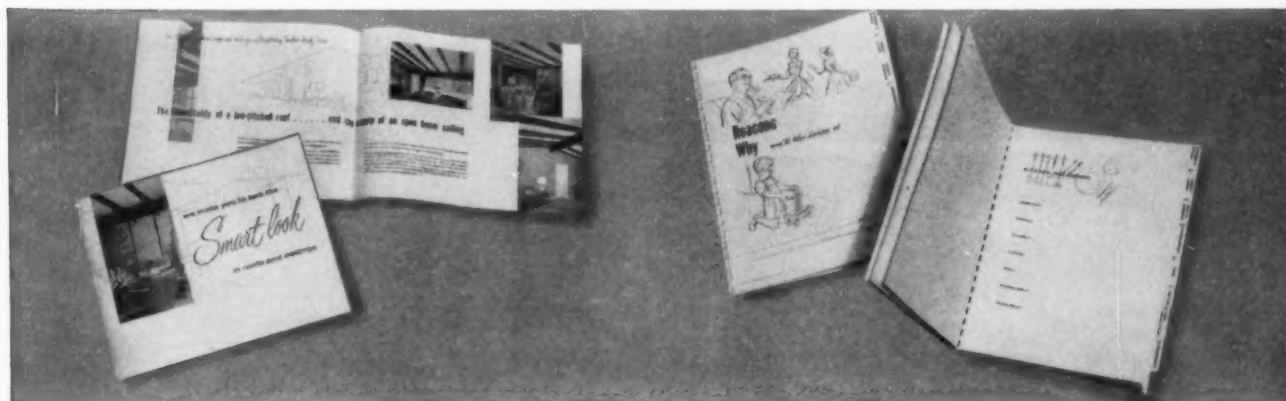
2. BEAUTY OF OPEN BEAM CEILING ATTRACTS BUYERS, SPEEDS SALES

Temlok Roof Deck does the same thing for your salesmen that it does for your carpenters—it makes their job easier. For Temlok gives them the powerful new sales feature of a beautiful open beam ceiling. Here is a rich-looking ceiling that prospects expect to find only in high-priced homes. It makes modern open-planned rooms look more spacious . . . yet blends equally well with both contemporary and traditional interiors. Temlok Roof Deck's insulation value also cuts heating and air-conditioning costs . . . and assures a strong, permanent roof that lasts the life of the house without cracking or warping.

3. NEW PROMOTIONAL PIECES TO HELP SALESMEN SELL

To help you and your salesmen make the most of the many advantages of Temlok Roof Deck, Armstrong has prepared the various promo-

tional pieces shown below. Each has a specific job to do. All will help put prospects in a buying mood. And all four pieces are *free*.

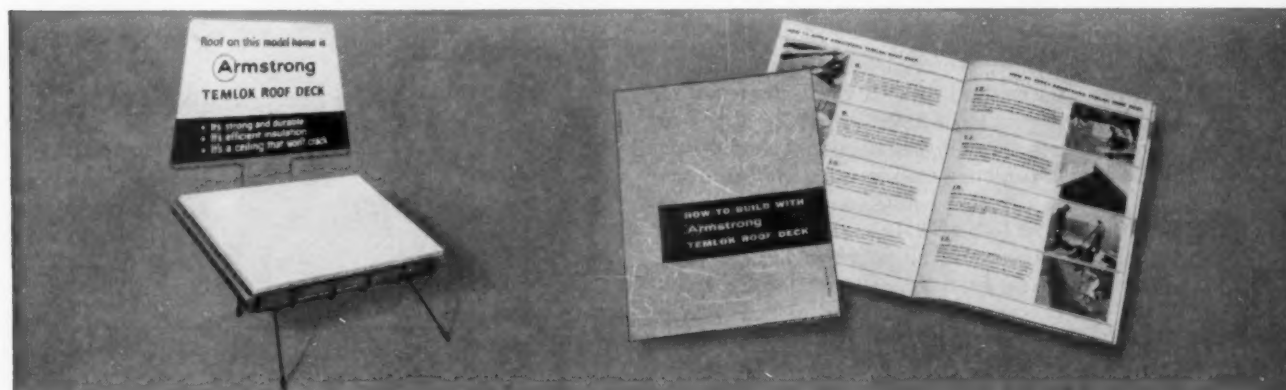


Personalized booklet for prospects

Make sure every prospect that goes through your house gets the complete story on the advantages of a house built with Temlok Roof Deck. This personalized booklet has your name and the name of the project imprinted on the front of the book without charge.

Selling portfolio for salesmen

Your salesmen will often refer to this valuable portfolio. It provides space for data about all the outstanding features of your homes. A page on Temlok Roof Deck answers many questions about this beautiful, practical roof-ceiling material.



Eye-catching display for model home

This smartly styled table display points up the chief advantages of Temlok Roof Deck. An actual sample of Temlok shows the sturdy construction and attractive ceiling finish. Display it prominently in your model home. Your salesman will find it a handy selling aid when talking to prospects.

Full story on roof deck construction

This concise 24-page booklet gives your designer and carpenters complete product information, test data, beam size and spacing charts, floor plans, photos of step-by-step application, and construction details. Send today for your *FREE* copy of "How to Build with Armstrong Temlok Roof Deck." For information on the promotional kit, write to the Armstrong Cork Company, 3710 Rider Ave., Lancaster, Pennsylvania.

Plan your fall homes with

Armstrong BUILDING MATERIALS

Temlok® Roof Deck • Temlok Sheathing • Temlok Tile • Cushiontone® Ceilings

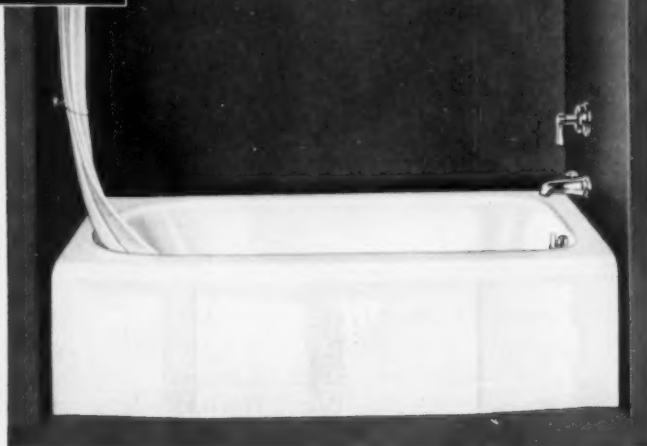
KOHLER

PLUMBING FIXTURES

for Modernizing



Hampton enameled iron lavatory



Cosmopolitan Bath

Superior designs—First quality—

Complete size-and-type range

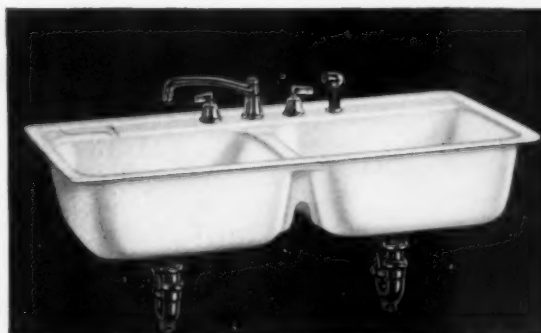
It's easy to meet any requirement of space, taste or budget when you modernize with Kohler fixtures and fittings. Kohler quality insures satisfaction. Special mounting features simplify installation.

The Cosmopolitan enameled iron bath, available in 4½', 5', and 5½' sizes, permits many bathroom arrangements. Other Kohler baths are graduated from 3½ to 5½ feet in length; 29 to 44 inches in width.

Kohler lavatories, of enameled iron and vitreous china, include the popular Hampton in both 22x19" and 19x17" sizes—and a range of built-in, wall-hung, leg and pedestal models with shelf, ledge, flat slab or back, and for corner or dental use. Closets of consistent design insure attractive matched sets—in pure lustrous white or soft pastel shades.



Kohler sinks, of acid-resisting enameled iron, afford a complete dimensional range, for counter-tops or cabinets. Kohler fittings—all-brass, chromium-plated—match the fixtures in style and quality.



Delafield Sink

Over the coast-to-coast

Mutual Radio Network

Kohler Co. will present the November 6th Election Returns

as a public service, continuing Kohler sponsorship of the year's three major news events—which included the Democratic and Republican National Conventions. Kohler messages on these broadcasts will serve the interests of dealers, contractors and distributors of Kohler products.

Kohler Co., Kohler, Wisconsin. Established 1873

KOHLER OF KOHLER

PLUMBING FIXTURES • HEATING EQUIPMENT • ELECTRIC PLANTS
AIR-COOLED ENGINES • PRECISION CONTROLS

full voltage . . . non-relay

Rodale Touchette

single button convenience
at the merest touch



EASY TO OPERATE—no toggle to flip...no knob to turn. Just a touch and it's lit...quietly! Another touch...Touchette is off...without the loud click of the standard toggle switch.

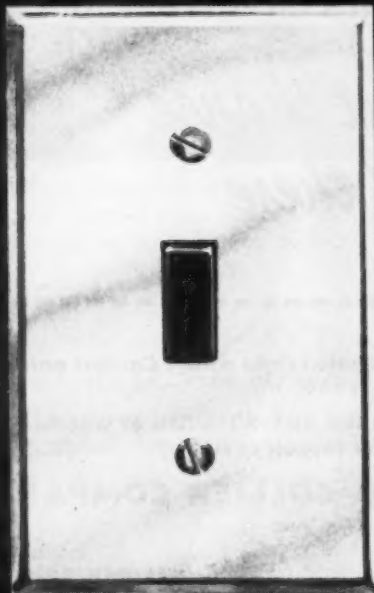
VERSATILE . . . FITS STANDARD PLATES—no need to replace favorite wall plates. Touchette dimensions conform to the opening of standard toggle wall plates...permit an economical change over.

OPERATES ON FULL LINE VOLTAGE—needs no special wiring, relays or transformers.

RATING—15A-120-277V. AC ONLY—for incandescent or fluorescent lighting systems. Can be used in new 277/480V systems. Single pole, double pole, three-way and four-way models . . . brown or ivory button.

UNDERWRITERS' LABORATORIES APPROVED.

Complete information and prices. Write: Rodale Manufacturing Company, Inc., Dept. **A8** Emmaus, Pennsylvania.



PATENT APPLIED FOR



RODALE MANUFACTURING COMPANY, INC.

EMMAUS, PENNSYLVANIA

Enter the 1956
BILT-WELL Builder's Contest
Win a Free Trip to

EUROPE



HAWAII



MEXICO



BERMUDA



**...Send in a snapshot of a job you completed this year using
BILT-WELL Windows and/or Cabinets! That's all there is to it!**

*You too have an excellent chance
of winning one of these
wonderful trips -----*

**Send in a picture of your BILT-WELL application right away! Contest entries
must be in by midnight, November 30th, 1956.**

**For complete information on products in the BILT-WELL line of woodwork,
ask your nearest BILT-WELL dealer or mail coupon at right.**



Manufactured by CARR, ADAMS & COLLIER COMPANY

Since 1866 • Dubuque, Iowa

Here are a few typical entries which won prizes in last year's contest:



Striking application of BILT-WELL Casement Windows. Beautiful, full ventilation, BILT-WELL Casements add a note of distinctive charm to any home, new or old.



BILT-WELL Kitchen Cabinets provide all the warmth, beauty and efficiency of the most expensive custom-built wood cabinet installation, at just a fraction of the cost, in this contemporary, open-planned kitchen.



A unique combination of BILT-WELL Awning, Hopper and Picture Windows helps establish an excitingly different personality for this "new idea" home.



Versatile BILT-WELL Cabinets, used as a complete storage wall, add an important, but economical, selling feature to this modern home.

The BILT-WELL Line—**WINDOW UNITS**, Double-Hung, Awning, Casements, Basement, Storm and Screen. **CABINETS**, Kitchen, Multiple-use, Wardrobes, Storage, Vanity-Lavatory and Vinyl Countertops. **DOORS**, Exterior, Interior, Screens and Combination.

BILT-WELL WOODWORK

Dept. A-87, Dubuque, Iowa

Please send me complete information on Bilt-Well Products.

Name.....

Address.....

City.....Zone.....State.....



Atlas Plywood Gum flush doors are uniformly better doors to start with — so you're always sure of a uniformly better finish.

Buy Gum!

stain it mahogany — and forget shortages!

This is it — and you can sell it completely. Atlas Plywood Gum flush doors are harder and less porous than inferior imported doors — yet Atlas Plywood doors are priced competitively! And the harder the wood the easier the sale!

Atlas Plywood Gum flush doors can be uniformly stained in a variety of rich, deep Mahogany tones. Made of American woods throughout Atlas Plywood Gum flush doors are skillfully crafted by experienced American workers — from forest to finished product.

Atlas Plywood Gum flush doors cost about the same as inferior foreign doors—but their difference pays off for you in sales and repeat sales. They are actually cheaper to stain and finish than the softer imported woods.

For complete information, send for free color folder. Write Dept. AB-10, 1432 Statler Building, Boston 16, Mass.

ATLAS 
Plywood

BEAUTIFULLY AT HOME IN ANY TYPE HOUSE

"Worthington air conditioning biggest sales feature!"



Illinois builder of 350-home project sold on Worthington units

Any home that costs \$12,000 or more to build should be air conditioned!

That's how builder L. B. Pooley of Aurora, Illinois sees it. Air conditioning not only protects the buyer's investment, but also makes a home easier to sell.

Most convincing proof of this is offered by the quality 350-home development now under construction by builder Pooley and his son Bob. Worthington's Year-Round unit has been speeding up sales ever since the project first got underway.

Pooley explains his choice of Worthington equipment like this:

"Worthington's Year-Round unit makes it easy for me to offer air conditioning as an optional feature. Heating and cooling sections come in one trim-looking cabinet that's a cinch to install. If a prospect wants to hold off on air conditioning, I install the heating unit first. The cooling section can be added at *any time!*"

Like Mr. Pooley, you can make Worthington air conditioning the feature that sells your homes this year. Call your Worthington dealer. He'll be glad to go over installation and cost details . . . and show you how Worthington's Year-Round unit will pay off in quick sales for you. You can also get full details by returning the attached reply card. Worthington Corporation, Air Conditioning and Refrigeration Division, Section A.5.45-AB, Harrison, N. J.

A.5.45



Builder Pooley likes the optional feature of Worthington's Year-Round Air Conditioner. Cooling section can be added at any time—it rolls into cabinet like a drawer.

WORTHINGTON



CLIMATE ENGINEERS TO
INDUSTRY, BUSINESS AND THE HOME

WORTHINGTON CORPORATION
Air Conditioning & Refrigeration Division
Section A.5.45
Harrison, N. J.

Gentlemen: Please send me information on
Worthington home air conditioning.

Name _____

Address _____

SOLD!

The First 100,000
National homes!



This new home, like all National homes, was planned by Charles M. Goodman, AIA, one of the nation's foremost architects.

Here's how you can profit from the next **100,000 National homes**

As the largest producer of homes, National Homes has created a brand-name product that is being purchased by one out of every 48 home buyers . . . and the demand is growing!

To satisfy this demand, we have expanded our facilities . . . and we are ready to expand our builder-dealer organization accordingly.

This provides an opportunity for qualified builder-dealers to join the most successful home-

building team in the world. National Homes builder-dealers—large and small—have the competitive advantages of a 25,000-house-a-year builder . . . with resulting higher dollar-profit.

For detailed information on how you can profit on the *next* 100,000 National homes, with a builder-dealer franchise, write to George A. Cowee, Jr., Vice-President for Sales, National Homes Corporation, Lafayette, Indiana.

ONE OUT OF EVERY 48 HOMES BEING BUILT IN AMERICA TODAY IS PRODUCED BY...





Bathroom Beauty **sells the house!**



meet the

Champion

the highest quality tub enclosure
at the lowest market price

The modern homeseeker *insists* on bathroom beauty—that's why builders across the nation feature tub enclosures and stall shower doors by Anoroc.

The Champion tub enclosure gives every home *extra value—greater sales appeal*—yet costs considerably less than most unrealistically priced units. The Champion has the looks, the class, the quality that help make the sale—at a bigger profit for you.

Here's Why The Champion Has Scored Such Success

- Speedy one-man installation—needs no drilling
- Two one-piece towel bars requiring no assembly
- Exclusive Red Nylon Rollers on stainless steel stud
- Rattle-proof sliding doors
- polished fully extruded aluminum frame
- choice of sand patterned glass panels
- Available in 4'6"—5 and 5'6" for recessed tubs

Also Corner Enclosures and Stall Shower Doors
Every Size Is A Stock Size . . . Immediate Delivery Guaranteed

Specify **The Champion**
Bathroom Beauty Begins With ANOROC

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another quality product from ANOROC

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Please send me literature on Champion Tub Enclosure.

NAME _____

COMPANY _____

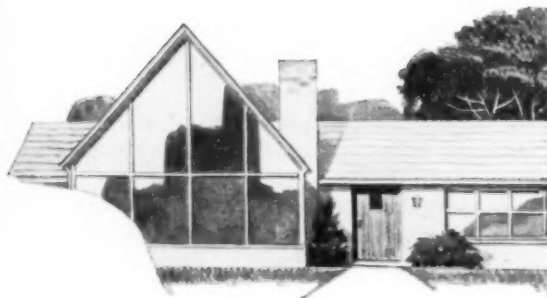
STREET _____

CITY _____

STATE _____

*"When you can get a premium glass
at no premium in price..."*

*"Sure, why not use it—
and that means AMERICAN!"*



AMERICAN PRODUCT LINE

American manufactures sheet glass with the least distortion and the greatest clarity, whiteness and luster.

LUSTRAGLASS—single and double strength for ordinary glazing.

LUSTRACRYSTAL—economical heavy sheet glass for larger openings and special applications.

LUSTRAWHITE—a picture glass of exceptional clarity and flatness.

LUSTRAGRAY—for better television viewing.

BULB EDGE GLASS—for use as counter dividers, wind deflectors and shelves.

THIN GLASS—for microscope slides and covers. Extremely flat and true to tolerance.

SUPRATEST—a laminated safety glass.

PANAL—a fiberglass-reinforced plastic structural panel.

WATCH OUR PRODUCT FAMILY GROW

The man-with-the-pipe is right! The more glassed-in areas there are on your projects, the more important it becomes to use the whitest, clearest, most lustrous glass you can find. And that *does* mean American LUSTRAGLASS or LUSTRACRYSTAL—for top quality at no extra cost.

● Prove it for yourself on your next job. Ask your American distributor how LUSTRAGLASS can give your client the benefit of more light transmission, and afford the least amount of distortion over large areas . . . how LUSTRACRYSTAL can save you as much as 35% in many applications. *Look in your Phone Directory for the name of the American distributor in your territory.*



PLANTS: ARNOLD, PA. • ELLWOOD CITY, PA.
JEANNETTE, PA. • OKMULGEE, OKLA.

How to keep from getting hurt in a declining market

What builders do about their bearish market in the next few months will separate the men from the easy-money boys.

Few are not being caught in the current squeeze between rising costs and vanishing mortgage financing.

Clearly, these are the two biggest problems facing builders right now. And there's probably not an active builder who's not worried about the immediate future of his business.

If, as many in the industry fear, the situation is forcing builders to price themselves out of their recent market, it will run them smack into a narrower field. Here customers are fewer and fussier, competition keener, and the selling tougher.

Chances are we'll come out stronger than ever. But what do we do meanwhile? How do *you*, as a builder, keep from getting hurt while your market declines?

If you could travel around the country, as we have been doing, talking with builders, seeing them in action, listening to what they're saying, watching what they're doing, you'd be struck by this one unmistakable trend:

► **Builders who are holding their own or doing even better are concentrating on merchandising.**

Most recent evidence of this attitude was found in abundance at the NAHB series of merchandising courses in Washington this year. American Builder editors covering these meetings made a highly interesting discovery.

Before the sessions got under way, most of the builders we queried figured their need for merchandising know-how was not exactly immediate; but they could foresee a use for it looming ahead.

After the course was completed we asked these same builders what they had got out of it. The answers were quite sobering.

Having been exposed for three days to some of the top thinking in this field, most builders were in a near-panic to get back and jump into this business of merchandising with both feet.

Aside from testifying to the NAHB faculty's skill in rousing their students, this impromptu survey underscores what you must do—starting right now.

► **You must begin thinking about how to sell the house long before you build it.**

What does this mean?

It means you have really got to do a lot more local research to find out what your market is like.

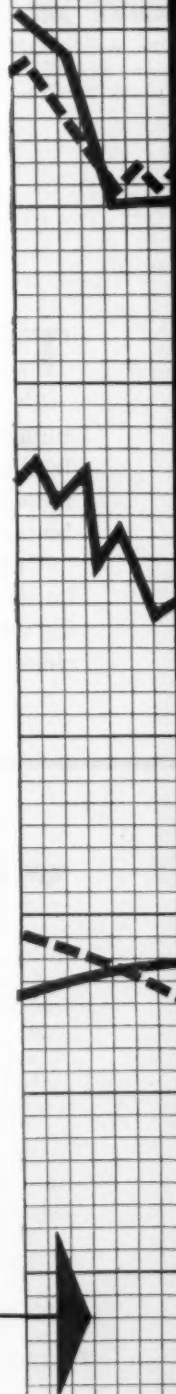
It means you have got to get the maximum mileage—but every last cent—out of your advertising dollar.

It means you have got to try every promotion technique you know—and concentrate on these that pay off.

It means you have got to improve your selling methods and management of your sales force.

It means, in short, that you have got to study (1) what your customers want and (2) how to give it to them at a profit.

FOR MORE ON MERCHANDISING, TURN THE PAGE





The idea is to tease them a little: Clarence W. Gosnell Jr.



Make him feel he's in a big house when in a small one: Stuart Fonde



Look what appliance manufacturers are doing: Carson Cowherd



Tune in on your salesmen. It can save a lot of sales: David Sprout



Give him a picture and let him commit himself: John W. New



Timing is vital. People like to see others buying: Kurt Bartlett

They helped donate \$1,000,000

The customer is in the saddle again and he's driving the builder to school.

For the fourth time in seven months builders who thought they'd finished with books are this month going back to the classrooms. Their object: to learn how to sell better.

Until the last couple of years, selling a house was merely the routine result of building one. Today the more alert builders have changed their tactics.

They're starting to think about selling the house even before it's built.

To help them, last March the National Association of Home Builders, under the sure hand of Merchandising Director William A. Molster, drew up a formal course of study on the subject of merchandising. With the help of Ira Mosher Associates ("Theatre for Industry"), it prepared a three-day program, offered it to NAHB members. Tuition was set at \$135 and enrollment limited to

▼ Four ways to cash in on expert merchandising know-how

- 1 Market Analysis:** don't make a move before you get the facts on inventory of unsold new dwellings, volume of new building, financing sources and availability, employment and income, population trend, migration and mobility of your prospective market
- 2 Advertising:** after you've analyzed your market, concentrate on the right media. Sell the "sizzle," not the steak
- 3 Sales Promotion:** begin your thinking before you build. Keep it going after you sell
- 4 Selling:** know what to look for in a salesman, how to help, train, pay—and motivate—him



From \$13,000 up, all the built-ins they want: Jack Zimmerman



The sales manager's job is to keep the men hungry: Frank Uible



One out of every five is a relative or close friend: Jack Hughes



With push-button living, if she likes it he'll buy it: Alyne Grant



It pays to be a tailor in the \$14-\$18,000 range: Gordon Peterson



Merchandising is for the higher brackets: Herbert Degenhardt

worth of merchandising ideas

120. The seminar, held at the National Housing Center in Washington (AB, May 1956), lured builders of every type and size from all over the country. More than a hundred were turned away. When the course was repeated in May the response was even greater. The third session, in August, was again a quick sell-out.

American Builder editors covering this last meeting were struck by the aggressiveness of builder-students in their search for

the latest in merchandising techniques.

Actually, the meeting turned out to be more than a lecture series. Professional specialists in each field led the discussions. But what developed was a forum in which builders exchanged information and ideas, learned as much from each other as they did from "the book." (Said one: "An expert is, after all, only someone from out of town.")

For what they discussed, see story below. Could be you'll find some ideas *you* can use.

The 3 Rs of merchandising: vital to survival

Before any builder can plan a successful merchandising program he must get and analyze certain facts about his market—facts that will help him build the right house at the right place at the right price and terms.

Right now those "three Rs of merchandising" are vital to survival.

How do you get the facts? There's only one way, according to NAHB economist Nathaniel H. Rogg: "Study your local market. Forget the national picture and concentrate on the

trends in your particular community."

Main cause of failure in the construction field, Rogg told the builders, is competitive weakness. Last year more than one out of four builders went out of business for that reason, as compared with only 17 percent of manufacturers.

How come? Explained Rogg: During the sellers' market builders didn't analyze their market thoroughly enough. Today every other stable, progressive industry is conducting market analysis, he said.

The building industry may actually come out of this period of

transition to a buyers' market stronger than ever, but, warned Rogg, *some builders will get hurt; some already are.*

The all-important fact is that the home builder's competition comes not only from within the building industry itself but from the larger and much more threatening areas outside the industry. All are vying for the consumer's dollar.

To gird for battle the builder must first arm himself with the following information about his local market:

- inventory of unsold new dwellings
- volume of new building

- financing sources and availability
- employment and income
- population trend
- migration and mobility

It doesn't cost much to get this information. But if a special analysis is too expensive for a builder's budget, he may be able to get several other builders to share the cost. If not, there are other sources; e.g., shopping centers (which probably made sure to learn all about the market before *they* built), university research centers and graduate students, chambers of commerce, local newspapers, radio and TV stations, telephone and milk companies, utilities, local home builders' associations, local building permit data. Most are likely to share their data on request.

Kind of advertising: when, where, how

The first—possibly the most important—thing builders heard was what *not* to do: "Don't advertise a *house*. That's not what you're selling." No one wants to buy a lot of wood and glass and metal and brick. What people want—and what builders must sell—is comfort, pride of ownership, togetherness.

As Clarence W. Gosnell, Jr., of Alexandria, Va., put it, "We don't tell everything in our advertising. We try to tease our prospects a little."

The trick is to capture their imagination. Perhaps the way Dale Bellamah, Albuquerque, N.M., does. Says Bellamah: "We found a round bed seven feet in diameter. We put it in our model home and advertised it in the newspapers. It brought out more people than if we'd had a two-headed goat."

Most builders have used advertising of one kind or another. Among those at the last seminar, eight out of ten use newspapers, either display or classified or both. Seven out of ten use road signs or billboards. The same number use brochures. A much smaller proportion use TV and radio. Only a third employ an advertising agency.

Builders seeking a large, selective audience use newspapers. Real prospects for a house, they find, naturally turn to the real estate section. Once there, adman Mark Wiseman told the class, size of the display ad makes little difference because genuine house hunters study every ad, from a full page down to about an eighth page, according to readership surveys.

TV and radio, on the other hand, provide more of a shotgun approach. They're non-selective, but builders find you can't beat these two media for getting the word around fast, thereby creating public awareness of your presence.

Road signs and billboards

"pick up" prospects on the road, preferably busy roads where motorists can see them easily—in fact, where they can't miss them. The local constabulary often frowns on the use of directional signs but builders have found ingenious substitutes. For example, says Jack Zimmerman, Traverse City, Mich.: "We use collapsible signs. When the police complain we fold them up and move them elsewhere."

In Dayton, Ohio, David J. Sprout uses a bus with a sign reading, "Follow Me." Also, boys in clown suits capering along the road and pointing the way.

Brochures are the workhorses of builder advertising. They must tell all. Whatever there is to say about the house or tract, the brochure must say it. Reason No. 1: people are sold by different things. Reason No. 2: newspaper ads may tease, salesmen may sell the sizzle, but brochures must get down to brass tacks and give prospects something permanent they can refer to for the details, the specifications, and all the essential facts.

That doesn't mean a brochure has to be dull. Rather it should reflect the character of the house and be as personalized as possible. Smart builders design their brochures to keep selling even after the prospect has left the



GIVE AND TAKE: Smaller groups follow up general discussions with exchange of information and ideas on questions they're specifically interested in.



AT GENERAL SESSION, builders listen intently to wide range of merchandising advice from NAHB specialists.

model house. And since builders sell the only product not delivered to the customer, they include a map (as simplified as possible) and a floor plan (not a blueprint).

One Eastern builder has his salesmen carry a brochure while showing prospects through. As they come to each bedroom, for example, he writes in the actual names of the family's children. The brochure he hands the couple as they leave is as personalized as he can make it.

Some merchandising-minded builders get manufacturers to pay for their brochure by giving them space in it. And some, if they're lucky (and foresighted), get good-looking, economical brochures in the form of reprints of magazine stories they helped to provide to the editor.

Sales promotion is a many-splendored thing

A lot of builders believe that financing is the key in low-price housing. But all agree that when you get up into the higher brackets today, merchandising is more important than any other factor in selling.

Herbert C. Degenhardt of Pittsburgh, Pa. is typical. Says he: "We were in the \$11,800-18,000 class. Now that we're moving into the \$20-30,000 cat-

egory we need to learn more about promotion techniques. There's too little profit in home building; we really have to learn to stretch our promotion dollars."

Many builders are going all-out on such devices as trade-ins, models with a lived-in look, built-ins.

Trade-ins are getting more and more popular. They now account for some 35 percent of all sales, according to Joseph Meyerhoff & Co. Sales Manager Gordon Butz. Big builder Jack Worthman, whose outfit, John R. Worthman of Fort Wayne, Ind., sells more than a million dollars worth of homes a year from \$15,000 to \$75,000, explained why:

"There simply are more prospects for new homes among home owners (now 56 percent of families, says NAHB) than among non-owners."

It's still a new idea to most customers, but a home is a natural thing to trade, like cars and appliances, and ads offering a trade-in deal draw floods of response.

Builders like the trade-in idea for several reasons, all revolving around a single premise: Primarily it's a device to sell more houses; it's not a money-making scheme in itself.

Specifically, trade-ins:

- permit earlier contact with the buyer
- eliminate buyer "shopping"
- avoid delays in closing the sale
- provide two sales, two profits
- increase sales, create buyers.

Builders were warned, however, not to go in over their heads with (1) too high appraisals or (2) too many trades.

Model homes properly took a large share of the stage. Faculty member Joel R. Streich of Gerholz Community Homes Inc. put it bluntly: "There is no such thing as a model house that looks too good."

Offstage, in small discussion groups, builders themselves revealed individual philosophies regarding this major sales-promotion tool:

"We're convinced," said Stuart Fonde, Knoxville, Tenn., "that you've got to make the customer feel he's in a big house when he's in a small one. Prefab manufacturers are outstripping builders in this respect."

"Regardless," Kurt Bartlett of Westchester, Ill., insisted, "timing is vital."

"We saw one outfit move into Chicago last year with models. They took deposits, told prospects to come back the following



Winter building is expensive . . .



. . . but come Spring, it's more

Cold Weather Can Put The Freeze On Your Profits; But If You Close Up Until Spring, You May Find Yourself Out In The Cold For Good.

Below, Builders Tell Why Higher Winter Costs Are Worth It:

- Unless he lives in a climate of year-round sunshine like Florida or Southern California, the builder will inevitably find that his Winter building costs are higher than during the rest of the year. In a recent series of get-togethers with builders in cold weather areas, American Builder asked them how much, why, and what can be done about it? Here are some of the answers.

Labor takes the biggest bite

- "... our cost, not the sale price is about 5 per cent higher in winter."

This is about \$800 on a \$16,000 house, and most of the builders seemed to feel it was about right. Most of it is labor costs, some of it is in equipment and higher overhead.

Everything slows down

- "Anyone on an hourly payroll is more costly in winter building."

This statement pretty well sums up the cold weather labor situation. Outside work is slower as men wear bulkier clothing and awkward gloves. And during spells of really cold weather, men have to go inside to warm up. Masonry needs extra care and the adding of anti-freezes. Storms can drive crews inside when there's not enough inside work to keep them busy.

Overhead climbs too

- "I spend \$75 to \$100 per house to keep crews comfortable. I don't want them to waste an hour building a fire." This means heaters and fuel.

- "Insurance and interest on your money all go up in the winter."

If it takes 25 per cent longer to finish a house, fixed cost items like these, and supervision, all will rise proportionately.

Hibernating all winter may cost more than keeping going

- "We build in winter not because we want to, but because we have to."

During the lush years right after the war, it didn't really matter whether or not a builder kept working all winter. He could sell anything he built in any season; if he was any good at all as a builder, he made enough money so that non-invested capital didn't cut down his income appreciably; and there was plenty of first class labor available. But not now.

It's a seasonal market

- "... you have to be ready for the rat race in Spring. ..."

There just aren't as many ready-to-buy customers wandering loose as there used to be. Those that are left will be out like flies the first warm day of the year. If your models aren't ready and waiting, they'll buy from the builder down the street. Also, National Home Week and its Fall parades means houses that must be delivered during Winter.

Good labor is getting scarcer

- "You want to keep your good men—the ones you've spent time training—working. You can't afford to lose them."

Good mechanics are getting harder to find every day. A builder who loses his crew every Fall is going to find that the men he picks up next Spring won't make as much money for him.

Idle money costs money

- "I don't want any idle capital lying around not working."

The same thing applies to the builder himself. He represents earning-power going to waste if he closes up for the winter.

expensive if you're not ready

How to thaw out

Advice for medium-to-big builders:

There'll always be bad weather

- "... you've got to organize for thaws and freezes, good and bad weather ..."

One thing you can be sure of is that there will be a certain amount of winter weather that will make outside work impossible. This will vary with the climate, but a good estimate would be something between 30 and 40 days. If frost is going to prevent digging all through January and February, footings and foundations must be done in December. If snow and cold keep crews from working outside, there must be enough inside work waiting to absorb them until they can get out again. And make sure that these men can be shifted to alternate jobs with a minimum of delay; if they have to stand around waiting for orders because no one thought ahead, it's your cash that's sitting around and disappearing.

Pay subs by the unit

- "Output per bricklayer? We don't care. We let the job on a piecework basis and pay the same whether the temperature is zero or a hundred degrees."

Most builders today hire their subcontractors on a per-unit contract basis. With this

system, they are not directly affected by cold weather slowdowns; while masonry work can give trouble, electricians, plumbers and heating contractors work indoors, and their efficiency should be almost the same as in warm weather.

In other words, while subbing out work is not a sure cure for the ills of cold weather, it does cut down on extra payroll costs for the builder.

Hot weather costs money too

- "We keep track of extra winter costs, but not of extra summer costs. ..."

Figures can be deceptive if they aren't complete. It is natural to think of winter as a difficult time to build, and to try and arrange as little work then as possible. But when the thermometer hits a hundred, costs also go up as labor slows down and concrete cooks too fast. Winter costs will probably be higher, but maybe not as much as you think.

Supervision? Do it yourself

One builder supplied the last word on the problem of supervisory overhead.

- "I can't fish in winter, so my own time isn't worth much to me, and I supervise."

Advice for smaller builders:

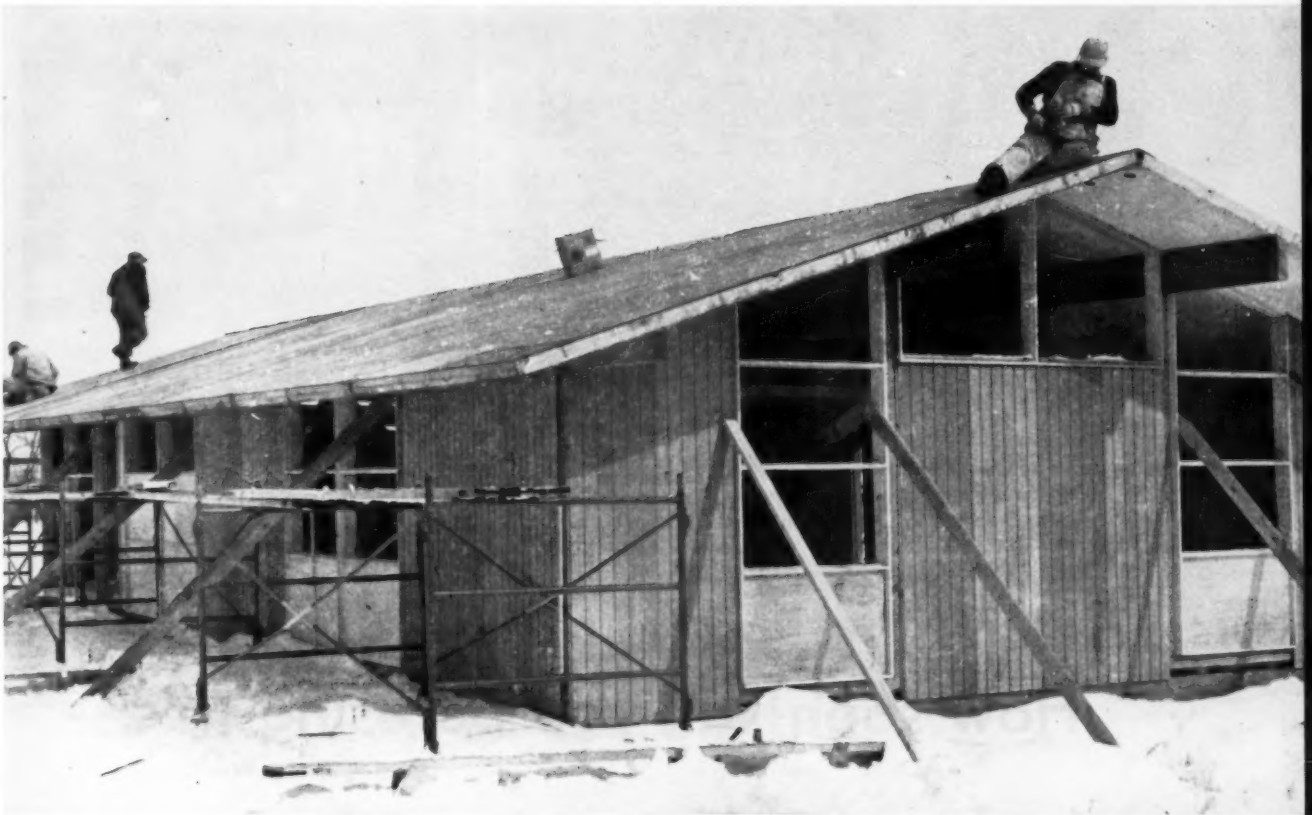
Oddly enough, the builder who is doing five houses a year can find winter weather harder to deal with than does the man with a two hundred house tract under way. The big builder is able to have several houses closed in and waiting for crews that are forced inside by weather. The smaller builder, on the other hand, may have just one house going up when the snow storm hits, and if he can't work on that, he has to go home.

Generally, the small builder can take some steps to help himself, such as putting in an additional foundation so frost can't hurt him. But putting one or two houses under roof in preparation for winter usually will call for a capital investment he just can't make. It is in this area that component parts and prefabs can really help. A large part of the shell

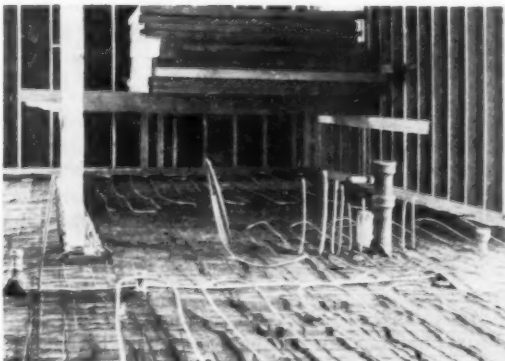
of such houses is completed when it leaves the factory. An experienced crew should be able to get the roof on in two days, or perhaps three on some of the larger and more complex models, and it is an unusual winter when this many days can't be squeezed into the average working week. With the roof on, only additional heat is necessary to keep work going at an almost normal rate.

Late Winter and Spring pose another problem: mud. The big, well heeled builder usually can afford to put down enough road to keep his trucks rolling; the little guy again may find himself in over his head. He must move in enough material early enough so that his operation doesn't come to a muddy standstill. After that, all he can do is pray for a dry spell.

some of the extra cost



EVEN IN THE WORST CLIMATES and the worst seasons, there aren't many days when you can't work at all.



ONCE THE SHELL IS UP, winter building can proceed almost normally. Here, pouring of the slab is left until the house is closed in. Partitions are stacked above floor.



COMPONENT SECTIONS enable the builder to erect walls and roof quickly. Tricky work like measuring and cutting, hard in awkward mittens, is done in the shop.



1 WALL PANELS are assembled on jig table in plant. Texture-111 plywood is both sheathing and siding. Fabricators, Inc., Norwalk, Conn., are manufacturers.

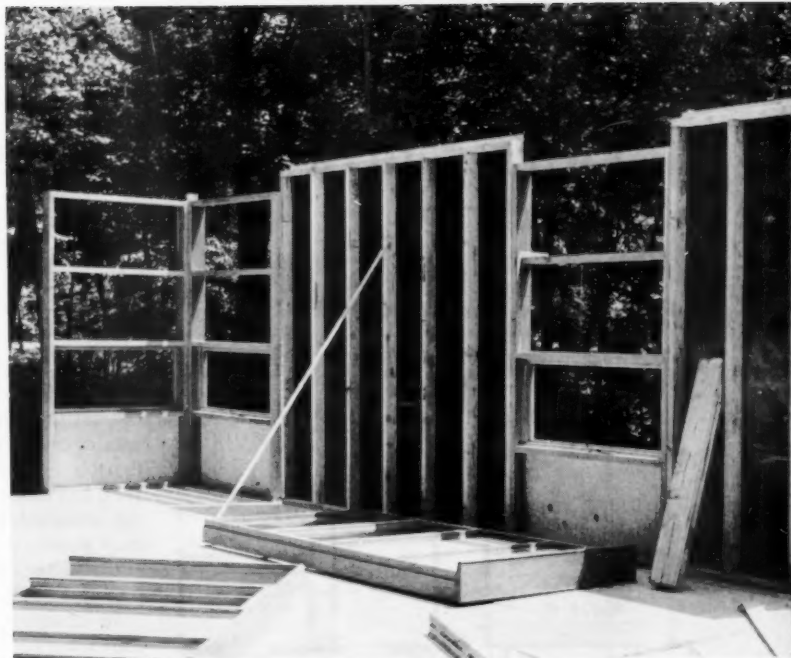
How soon will you be using this

IT'S A MATTER OF ARITHMETIC AND COMMON SENSE

- ▶ **You'll build faster.** A crew of four to six men should be able to have the average component house tight to the weather in two days. Add to this the increased speed of interior finishing made possible by prebuilt closets and partitions, and you have a building system that can cut as much as 50 per cent off normal building time. The builder is much less liable to get hurt by bad weather, he can build more houses per year, and his capital is tied up only half as long per house.
- ▶ **You'll build more economically.** For the big, efficient project builder, there will usually be little or no saving in a components system such as this. The smaller custom builder, however, whose prices are often \$15 a square foot and higher, should be able to effect appreciable economies with components. Besides the savings from high plant efficiency vs. low field efficiency, his men will have little chance to make costly mistakes that have to be ripped out and redone at his expense.
- ▶ **You'll build with less skilled labor.** The shortage of first class carpenters has become one of the major headaches of the building industry; and custom building, needing a higher percentage of skilled mechanics, has been especially hard hit. The basic simplicity of nailing together large components means scarce skilled labor can be used in supervisory positions, while less skilled (and cheaper) labor does most of the work.



- 2 COMPLETE SHELL** arrives on site in one truckload. If truck can be spared, ideal arrangement is to park it, erect parts as they're unloaded.



- 3 LARGE SECTIONS** are set into place quickly. Header at right is set in above window panels, and a single 2 x 4 plate then ties whole wall together.

1-2-3 way to custom-build?

- ▶ **You'll build with a smaller crew.** When a custom builder is up to his ears in work, whether or not to take on another job is always a problem. If he does, he'll have to hire more men, add overhead and headaches; to turn it down hits where it hurts—his wallet. If he's using standard components his crews are small, do the job fast, and he may be able to stretch present manpower. If not, the added men will be few in number.
- ▶ **You'll build with less financial risk.** Even the best estimator has his bad days, and one of these days added to a tight bid can cost a builder a lot of money. By using components purchased at a fixed cost the builder can reduce the percentage of his own work done in the field, the place where money is lost. And when the occasional belt tightening days turn up, he can submit a close bid and still sleep nights.
- ▶ **You'll build with less overhead.** Since the component builder is able to build more units with the same manpower, all non-productive supervisory or office help is going to be spread over more houses, thus cost less. And since estimating is much easier and faster, the builder himself may get some free evenings, or maybe even a weekend.
- ▶ **You'll build from simpler plans.** All component systems are modular in design, most of them use a four foot module. The builder who does his own board work will find designing on modular grid paper surprisingly simple. By the same token, reading from the plan in the field is easier, less liable to error. It's easy to set a four inch stud on the wrong side of a pencil mark, pretty hard to do the same with a four foot panel.

Here's how you'll adapt your plan

From a conventional plan . . .



The ultimate goal of a components system is to let the builder order the parts he needs from a catalogue, nail them together, and walk away from the job. No such system exists yet, but Fabricators, Inc., has taken the first step towards it by marketing the standard components shown below. A builder may purchase a complete package for one of several standard houses, or he may select his own design and buy such components as he needs.

In designing a component house it is best to start from scratch and design directly to the module being used. However, until the idea of modular design is more firmly established it will frequently be necessary to adapt existing plans. Such an adaptation is shown here. Note how closely its dimensions conform to those of the original; this was made possible by using half a dozen special two-foot panels in the outside walls.

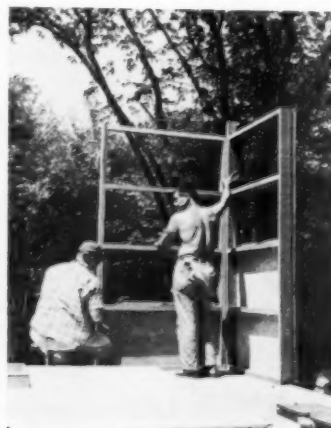
The types of components marketed by Fabricators, Inc., and their prices, are shown below.



ROOF TRUSSES come with pitches from 1½" on up, spans of from 12' to 36'. Prices are from \$15 to \$45.



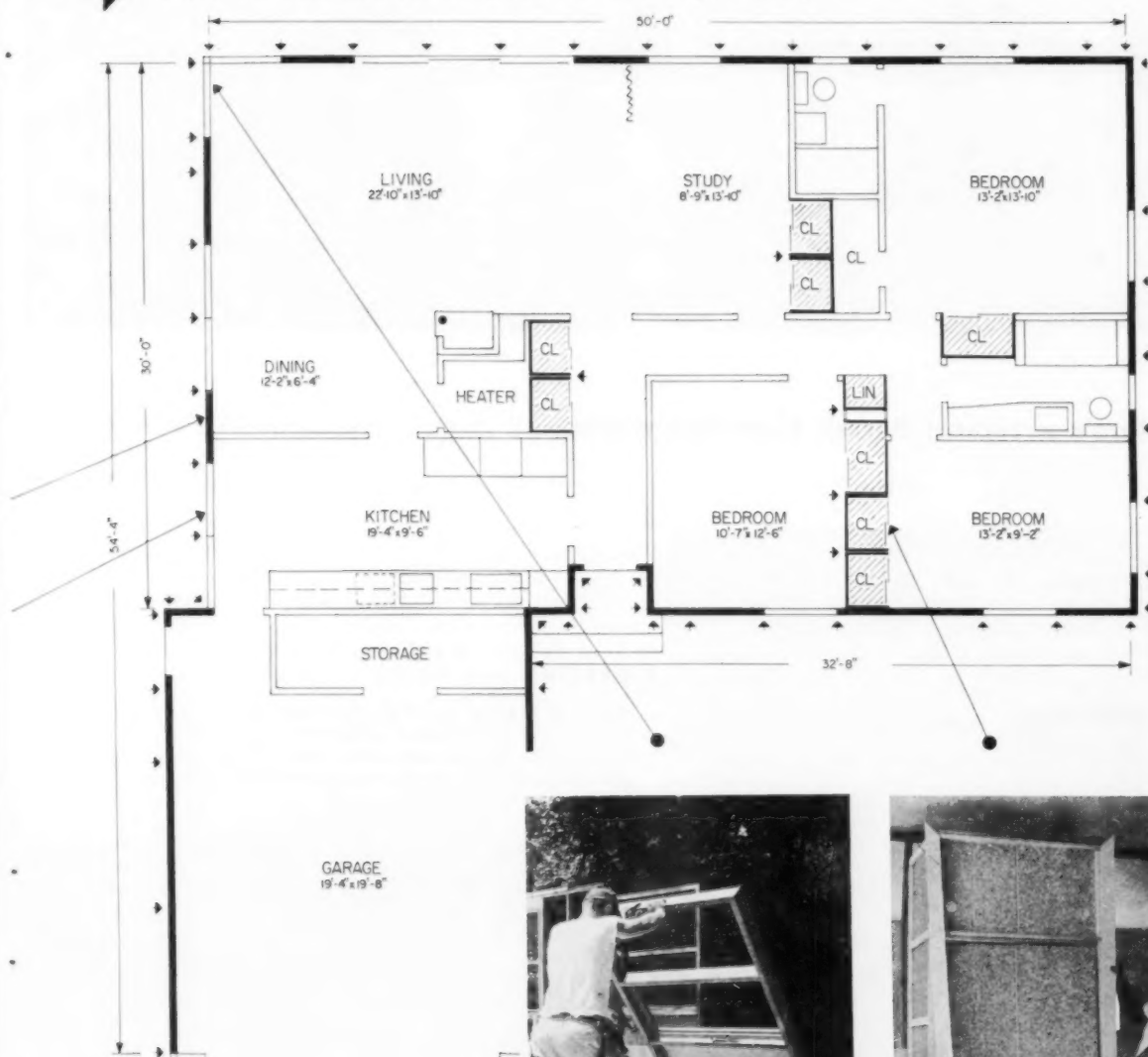
THIS WALL PANEL is solid; others can be bought with door and various window openings. Price \$25 to \$50.



CORNER WINDOW is from two panels. Frames have any combination of glass or plywood. From \$28-111.

to a components system

... to the modular plan is a simple step



WINDOW FRAME PANEL is tilted into place. This one has one operating sash, one fixed pane, costs \$63.75.



PREFAB CLOSETS are supplied knocked down in 2' to 4' widths. Cost is \$70 to \$150, depending on size.



Good

BIG CONFAB: remodeling job, major part of firm's business, discussed by George Bertch (r) his father Henry (l) and shop foreman.

▼ Here's a typical Bertch remodeling job . . .



◀ BEFORE

BERTCH MAGIC converted this small kitchen and laundry room into an open, serviceable area. Common wall jammed up traffic, kept room dark. Change gave new look to house owned by Mr. & Mrs. Westbrook.



AFTER ▶

BUILT-IN oven, cabinets and stove replaced old utilities. Wiring and plumbing were converted, additional service installed to handle equipment. Other changes: sink, dishwasher and disposer, recessed lighting.

advice from remodeler George Bertch . .

"Your role as a record keeper is constantly on the increase. This part of the operation is just as important as driving nails. Problems encountered in the remodeling business are unique in the building industry. If the remodeler is to expand and service his customers efficiently, attention to detail is vital. Write it—don't say it!"

▼ Here's how Bertch keeps records on it . . .

There's more than one way to skin an expensive cat: remodeler George Bertch of South Pasadena, Calif., knows how.

The easiest way to lose money in the remodeling business, Bertch claims, is to do a lot of work or furnish miscellaneous materials for which no charge is made, because records are not kept properly.

Most of the company's work is based on a fixed price for each job—still, extra costs frequently crop up which were not included in original estimates.

To help buck these extras, Bertch devised a set of cost and work forms which are the foundation of his organization. (Bertch runs the firm for his father under the name Henry Bertch Building Contractor. Henry Bertch now concentrates on the home building end of the business.)

Bertch uses these forms for all contract work. He finds they are an invaluable aid in estimating, and also the basis of his bookkeeping system.

Step 1. How Bertch gets his customers

Since most of the business comes from referrals, the firm does little advertising. Thirty-five to 40 remodeling jobs are underway at all times (average job runs about \$3500).

With many more potential customers than he can handle, Bertch has little time to solicit clients who may not be ready to have work done.

Usually he waits for owners to contact him. When no one is at the office, a telephone answering and recording device takes messages. This costs \$16 per month rental. Bertch says he would sooner part with his right arm than this device.

Telephone calls recorded

When someone calls a voice says, "This is the recorded voice of George Bertch. After you hear the tone signal you may leave any message of not more than 28 seconds duration. Your call will be returned promptly."

A Prospect Form is used to record the messages from the telephone calls. Space for potential customer's name, address, phone number and other vital information is listed on the form. This is kept in a current file until the job is landed or dropped.

Step 2. How Bertch estimates a job

A General Estimate Sheet and a form headed Miscellaneous serve to remind Bertch of all items which must be noted in making an estimate. This listing includes everything from excavation to painting and plastering.

Bertch gives the owner a rough estimate of the cost on his first call. If the estimate is in line with what the owner expects, detailed drawings, specifi-

▼ Here's how remodeler Bertch keeps records (cont) . . .

cations and materials to be furnished are made. This, he tells the owner, takes considerable time, and it is necessary to make a nominal charge for the drawings. If the job goes ahead, the charge—which is usually from \$25 to \$200—is absorbed.

Bertch finds that most owners regard this charge as a reasonable procedure, if they are seriously interested in having the work done.

When the drawing is finished Bertch mails it to the customer asking him to study it and determine if it completely meets his expectations. A price is not given at this time. In a few days the owner is contacted. If there are no changes or suggestions an appointment is made to finalize the matter. Before going to keep this appointment a letter form contract is drawn, ready for signing. This, of course, includes the final price for the work.

Because some owners are afraid of the small print on a contract form, Bertch prefers to use a letter outlining the work to be done.

In order to facilitate the writing of these letters, and to be sure the language is legally correct, he worked up 24 form paragraphs.

These paragraphs are kept in a file on 3 x 5 index cards. When the time comes to write the letter, Bertch pulls out the cards that relate to the particular job on hand. An office worker then transfers them to the firm's stationery. Prices and job details are included in the letter. This file saves Bertch many work hours.

In his selling work, Bertch liberally uses "before" and "after" photographs. Through the years, he has built an extensive file of these pictures. Whenever he takes a new contract where this type photo will add something new to his already large collection, he has a photographer take a "before" and later one or more "afters".

This is costly. A set runs about \$25 to \$30. But Bertch finds these pictures a tremendous aid in showing prospects what can be done for them.

Step 3. Job records show where estimates are off

The Job Cost Record is identical to the General Estimate Sheet, but it is used for an entirely different purpose. On it is kept an actual record of the company's cost to compare with original estimates. This way Bertch knows if he has charged too little or too much for a particular type of job.

These records are also used for billing in cost-plus work.

Step 4. Estimates for sub-contract work

Through long experience Bertch is able to figure

plumbing, electrical work and plastering, all of which are done by sub-contractors. Only on large or complicated jobs does he find it necessary to first get prices from the subs before making his own firm commitment.

For this purpose an estimate form is sent to the subs. Space for the quotation and special remarks is included in the form. Bids are usually telephoned in, followed by written confirmation.

When Bertch finally is ready to order sub-contract work he sends out an order form which lists type of job, date and time work. There is always a clear understanding between him and the contractor.

Step 5. Company shop saves time and money

Bertch has a shop to get the quality and speed which the organization needs. Using his own shop saves time and money over buying items on the outside.

In the shop, moulding, cabinets and window frames are made. As much precutting as possible is done here too. This does not include framing lumber which the men cut on the job with portable tools.

Each day the shopman gets instructions from Shop Order Sheets filled in by Bertch. Little time is lost because the shopman knows exactly what has to be made for a particular job and when it must be ready.

Step 6. The guess work is gone . . .

Bertch likes to know how his money is spent. A Labor Recapitulation Sheet filled in from the crew's time cards tells him the story.

The purpose is to see the time spent, and total wages earned by his men on each job.

Step 7. Daily records give job status

To see at a glance the status of each job, a day-by-day record is kept. The crew is responsible for filling in the form. Work accomplished, materials delivered, equipment rented are some of the things Bertch likes to know about.

Step 8. Bills broken down for customer

Bills are sent to customers when jobs are completed. Bertch has two kinds of bills: one for fixed price work, and one for cost-plus work. Both break down charges for the customer and show

customer-allowances. Bertch does not like to leave his clients in doubt about any charge he gives for a job.

How Cost-Plus Jobs Are Billed

On cost-plus bills, charges are gotten from the Job-Cost Records. (These show company's expense.) Some of the items paid for in this type work are labor and insurance, stock materials, shop time, services and sub-contractors.

Equipment rental (usually an extra charge in cost-plus work) is billed separately. The customer is charged rental for type of machinery used and length of time.

Step 9. Aids for bookkeeping

To help him in his accounting, Bertch has an Allowance Sheet which is used for two purposes: first, to record the cost of extra materials; second, to show a debit or credit allowance made for fixtures, hardware or other materials.

For example, if Bertch allows \$100 for hardware and his customer selects hardware worth \$125 he is charged for the difference. If he uses \$75 worth, he is given a \$25 credit.

▼ Here's how Bertch coordinates his crew . . .

Bertch relies heavily on records kept by his crew.

The many details of each job and the vast number of jobs going at one time, make it impossible for him to check each one individually.

The organization consists of three full-time carpentry foremen who work on the jobs; one man who handles all the shop work; one man who does general work; and part time office help.

To keep his operation running smoothly, Bertch depends on his crew to hand in work reports—not only on his work, but that of sub-contractors.

Because these records are used in office accounting procedures, the crew is trained to promptly fill in the reports and return them to the office. Tardiness means an item may be missed on an outgoing bill.

The men keep records on sub-contract work, condition of tools and equipment and material stocks.

Step 1. Crew's work record kept on time sheet

Each workman keeps his own time sheet. It is filled in at the end of the day, or when changing from one job to another. Contract jobs are recorded on these sheets but labeled as extra. The back of the card is used to describe the extra work.

By having his crew record time on contract jobs separately, Bertch has a complete breakdown on how his men's time is spent.

Step 10. Bertch keeps track of his crew

To know where his men are at all times, Bertch uses a Personal Routing Sheet which gives him each man's assignment. This is helpful for last minute instructions or job changes.

Step 11. Kitchen planning check list

The major share of the work is kitchen and bathroom remodeling and additions of rooms. When work is in the planning stage, most owners welcome suggestions. As an aid Bertch worked up a Kitchen Check List.

Many of the items (cabinets and type, cabinet features, floors and types, kitchen equipment, accessories, electrical equipment) can be installed at a nominal cost.

This list benefits the owner by giving suggestions, and benefits Bertch by building up contract work.

Most of these forms are similar (although used for different purposes). They facilitate billing, bookkeeping records, and work assignments. Without them Bertch claims he could not run his organization.

Step 2. How equipment charges are made

These charges are recorded by the men right on the job. Equipment Charge Sheets are used for billing a customer for cost-plus work.

When a tool is charged on a time basis, some judgment is required in recording charges.

Bertch set up a guide for his men:

- If a tool is on the job, but is not used at all—no charge.
- If a tool is used once or twice a day to good advantage—charge half day.
- If a tool is used hard all day—charge full day.
- In addition there is a charge for saws dulled, sandpaper belts used, sanding discs and sandpaper pads used, also jointer knives dulled on old wood.

(Continued on page 276)

Like to receive a set of these forms? There's no charge. Just write to:

**Remodeling Editor
American Builder
30 Church Street
New York 7, New York**

HOUSEPOWER:

One of the biggest complaints about today's houses is that they aren't being wired for today's expanding electrical needs. Many builders are still trying to get along with minimum wiring, although the cost of an adequate job actually raises the price very little.

From 75 to 90 per cent of the houses being built are wired on sub-standards. Surveys show that about one house in ten is wired to meet either present or future needs.

Consumers are buying electrical devices and equipment at a record clip. Builders, on the other hand, are not keeping up with the demand for better wiring. At least 60 different devices load up

Use this check-

Standards for wiring a house adequately are constantly changing, but the National Adequate Wiring Bureau (one of the powers behind the HOUSEPOWER program) has issued booklets from time to time on what constitutes good wiring. As you might expect, these have nothing to do with codes, many of which are outdated, especially in the matter of new equipment. But they do show you what a house *ought* to have in the way of wiring. If you follow them closely in the pre-planning stages of your house, you won't go wrong. Use them when you check with your electrical contractor.

□ LIVING ROOMS

- At least one ceiling light—more if room is very long and narrow. Valance, cove, wall lighting or portable lamps may be used in lieu of ceiling light. Outlets for lamps should be wall-switch controlled wherever possible.
- ⊕ At least one duplex outlet for every six feet of usable wall space, two of which should be wall-switch controlled. Television to have 120-volt, 20-amp outlet separate from other appliances.
- TV One special purpose outlet for room air conditioner, unless central air-conditioning system is planned.



PASADENA ELECTRICIAN Harold Hubbard shows Pacific Electric's John Wynn how conduit is brought into outlet box for built-in telephone service. Wire is fed through conduit from outside.

how it can help cut complaints

the wiring of a house, and there are no signs that this stream of new power-consuming equipment is going to abate. It's getting bigger instead of smaller.

What can the builder do? First of all, he should increase his efforts to merchandise the *extra value* that adequate wiring gives. He should never let his customer overlook the fact that for an extra \$50 or so he's getting enough wiring to take care of \$2,000 worth of appliances. Point out to him also that an adequate wiring job now will save him four to six times its cost in the future. The consumer has come a long way, but he needs to be led still further. It's a sales job, pure and simple.

What the VA, FHA and conventional appraisers

do in regard to raising house evaluations concerns the whole industry. One thing is certain: the more pressure you put on them the better.

Manufacturers are looking for ways to cut costs and are coming up with new wiring devices. But in the last analysis it's the builder who has to take (or reject) the low wiring bid, find ways to absorb the extra cost in other phases of his business and put **HOUSEPOWER** on a paying basis.

How to do this? By simply pre-planning for the future. Make sure your house has those spare circuits in that oversized entrance panel, those extra outlets—indoors and out. Otherwise you'll be getting calls of complaint over the telephone.

list to be sure you're safe

□ DINING AREAS

- At least one lighting outlet, wall-switch controlled, above or near table space. Valance or cove lighting may supplement ceiling light.
- ⊖ Duplex convenience outlet for every six feet of usable wall space.
- ⊖ At least one 3-wire, 115/230-volt, 20-amp circuit with split-wired receptacle for appliances.

□ BEDROOMS

- Ceiling fixture or valance, cove or cornice lighting. Outlets to be wall-switch controlled.
- MS** Master switch control for selected interior and exterior lights is suggested.
- ⊖ At least one convenience outlet for every six feet of usable wall space.
- ⊖ Triplex convenience outlet for bedside radios, clocks, etc. recommended.
- ⊖ Special purpose outlet for room air-conditioner is recommended.

□ KITCHEN

- One centrally located ceiling light, with wall-controlled switch.
- Individual lights for countertops, range, sink, table. Undercabinet lighting recommended.
- ⊖ Convenience outlet for refrigerator. One outlet for every four feet of work-surface frontage, to be located about 44 inches above floor. All outlets, except for refrigerator, to be of split receptacle type.
- ⊖ One special purpose outlet each for range and fan. Separate outlets for dishwasher and disposer.

□ LAUNDRY AREAS

- Lighting to be provided over work areas—laundry tubs, washers, dryers and ironers. At least one outlet in room to be wall-switch controlled. For basement laundry, ceiling light is recommended.
- ⊖ At least one convenience outlet of split receptacle type.
- ⊖ One special purpose outlet for each: washer, hand iron or ironer, dryer. Fan outlet desirable.

HOUSEPOWER (continued)

□ UTILITY ROOM

- Lighting outlets for furnace area and work bench, if planned.
- ⊕ One convenience outlet near furnace or workshop.
- One special purpose outlet for furnace if needed.

□ BATHROOMS AND LAVATORIES

- Ceiling outlet to be located in line with wash basin to provide general illumination—wall-switch controlled.
- Wall lighting for mirror to illuminate both sides of face.
- Switch-controlled night light recommended.
- Waterproof luminaire for shower stall.
- ⊕ Convenience outlet near mirror, 3-5 feet above the floor.
- ⊕ Special purpose outlet for space heater desirable.

□ HALLS

- At least one lighting outlet, wall-switch controlled—more if area is irregularly shaped.
- Night light recommended in hall leading to one or more bedrooms.
- ⊕ At least one convenience outlet for each 15 feet of hallway. Entrance halls and foyers should have outlets spaced 10 feet apart.

□ CLOSETS

- At least one outlet for each closet, wall-switch controlled. Where shelving interferes, outlets should be provided in adjoining space.

□ STAIRWAYS

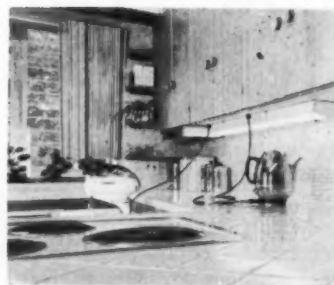
- At least one wall or ceiling outlet at head of each flight of stairs. Outlets to have multiple-switch control at both head and foot of stairs.
- ⊕ Convenience outlet recommended at intermediate landings for night light, vacuum cleaner.

□ ACCESSIBLE ATTIC

- One outlet for general illumination, wall-switch controlled, at foot of stairs. For folding stairs, pull chain may be installed.

(Continued on page 275)

Here are eight

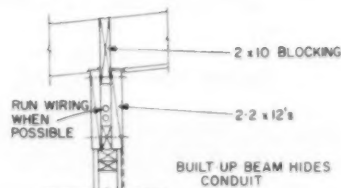


MOVABLE PLUGS make Bulldog Electric's Electrostrip mighty handy for kitchen appliances. Strip attaches to underside of cabinets, and outlets may be moved to any desired spot along strip. Installation is simple, as little or no cutting in is required. Ceramic tile countertop, backsplash and mahogany cabinets in Detroit Builders' house.



BATHROOM LIGHT by Cannon Electric Co., Los Angeles, Calif., is one of several specialty lights for indoor or outdoor use. Night light has plastic snap-on face plate, operates on low voltage (12 volt) circuit through small transformer. Made for hall or bathroom use, it provides three candle-power illumination with small bulb.

How to bring

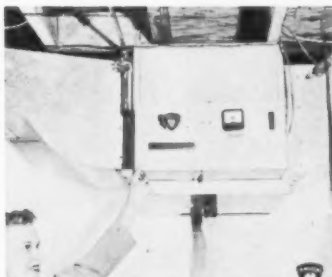


BUILT-UP BEAM is used to house conduit in Parade home of West Memphis, Ark., builder Jack Rich. Rich also uses Square D multi-breaker entrance panel.

ideas to up your HOUSEPOWER rating



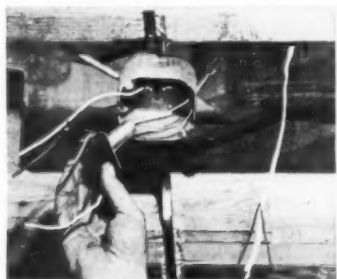
MODERN STEP-SAVING convenience, the plug-in telephone, is becoming a must with those who like outdoor living. Outlet has weatherproof covering, is installed about 18 inches above floor. Plug-in phone makes time you spend on terrace or patio more relaxing—you don't have to listen for house phone. Especially needed by custom builder.



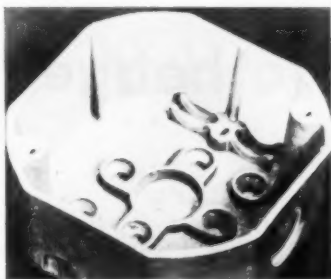
ELECTRONIC AIR CLEANER by Trion, Inc., can be installed with any warm air or air conditioning system. R. A. Gall features this automatic housecleaner in his \$18,000 Cleveland homes. Cleaner removes dust, soot, smoke and pollen. It consists of an ionizing-collecting cell, high voltage power pack and features a water wash-spray system.



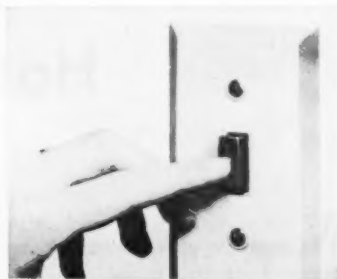
TAKING RISK out of replacing burned out fuses, especially in darkness, are these Sightmaster fuses, which have tiny built-in neon light that glows in dark. Fuses need not be removed; you simply turn them, dial-like, to next click. No need to worry about matching amperages. Fuses have six lives, are made in 15 to 30 amp sizes.



SIX-VOLT remote control system by Remcon (Pyramid Instrument Corp.) uses standard outlet box and miniature relays. Because of low voltage, small bell wire can be used. Installation of low voltage relay system in Oceanside, Long Island, homes of builders Ballin, Glicksman and Langfur was big but economical sales feature.

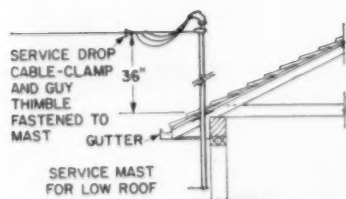


NEW PLASTIC OUTLET box by Porcelain Products, Inc., of Findlay, Ohio, is reinforced with molded glass fiber, has unusual resistance to moisture, fire and heavy impacts. It is non-corrosive and does not attract condensation, making it ideal for basement installation. Box is available with standard round knock-outs.

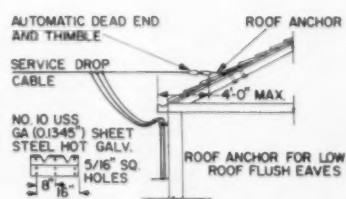


SINGLE BUTTON TOUCHETTE by Rodale replaces familiar toggle switch, fits standard wall plate or outlet box. It operates on full line voltage without relays or transformers and requires no special wiring. Basic moving parts consist of nylon cam and ratchet. Operates either fluorescent or incandescent lighting systems.

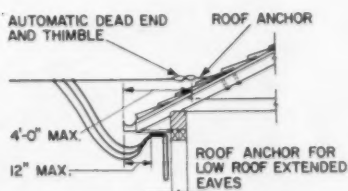
HOUSEPOWER into today's ranch house



SERVICE DROP of typical ranch house installation may have 36-inch mast to support it. Power entrance is usually at corner of house in this type.



ANCHORING SERVICE drop to roof rafter is also used. Three-wire lead-ins are cable-clamped to service and looped down under projecting eaves as shown.



WHERE ROOF EAVES are flush, three-wire connection from service drop is made directly to sidewall. Cable is then brought down sidewall to entrance panel.



"WHEN YOU BUILD apartments as a personal investment, do everything you can to reduce upkeep," says Detroit builder Al Couvreur. His units are brick and all-electric. Rentals range from \$80 to \$100 per month.

ST. CLAIR SHORES units have Electrovector baseboard heating. Unit costs average \$90 to \$95 for heating alone. Ceilings have blown insulation, while sidewalls have full-thick blankets. Tenants like the evenness of electric heat.



How to hedge the bet with

With commercial building running to a record high this year, you can hedge the bet on residential work by getting into the apartment field. That's what Detroit builder Al Couvreur did with the rental unit shown here—and they now gross him \$17,000 annually. His investment was \$92,000, about one-sixth of which went for land.

A young ranch-house builder of some four years

standing, Couvreur wanted an investment that would bring him a yearly income. He built the eighteen units shown here at \$4,300 apiece, using much the same planning and construction techniques (trusses) used for his ranch houses.

Couvreur considered various types of heat but chose electric baseboard radiators. It was a wise choice, as heating bills have run \$90-\$95 a month.



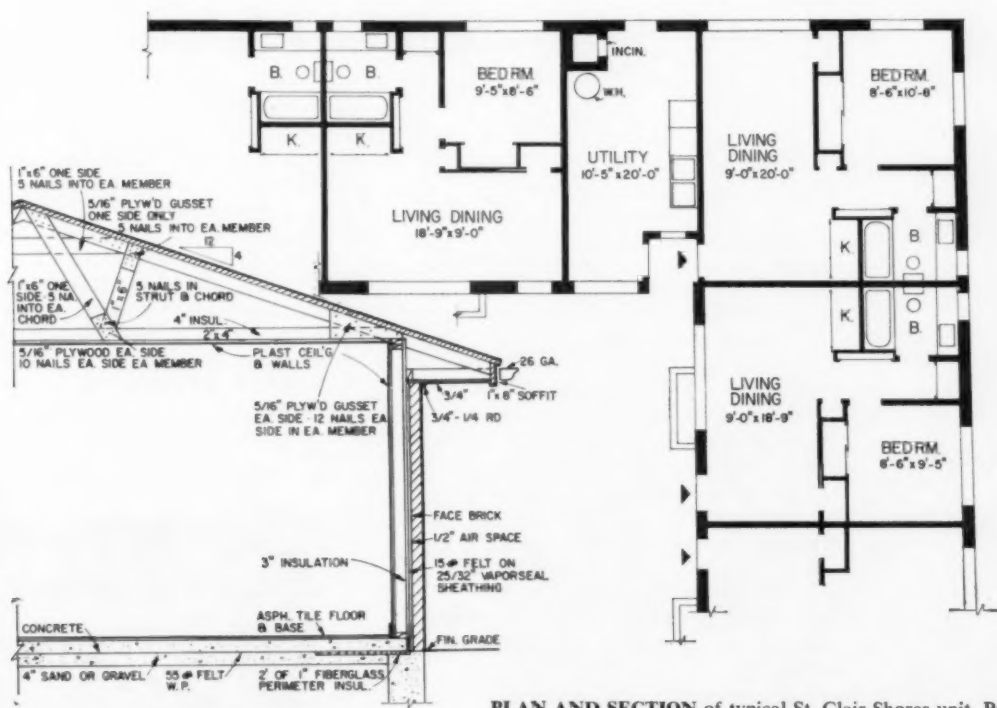
FULLY EQUIPPED LAUNDRY houses washers, dryers, water heaters. It's one of many reasons why owner-builder Couvreur still has the same set of tenants he opened up with. Above laundry is master TV antenna, two amplifiers. Westinghouse appliances.



EFFICIENCY KITCHEN, also Westinghouse, includes range, refrigerator, Nutone exhaust fan. Bathrooms have American-Standard fixtures, built-in vanities. Each unit has a 52-gal. water tank.



a small apartment building



PLAN AND SECTION of typical St. Clair Shores unit. Builder stuck to ranch house construction, used standard W-truss for asphalt shingle roof. For soundproofing he went to staggered studs with mineral wool blankets. Floor is asphalt tile.

Are custom
and project building
always miles apart?
No, says this builder in
Haddonfield, N. J., and
he's got a booming
business to prove it.



How they customize to kill that "development look"

As every builder knows, Mr. Average American Homebuyer is a guy who usually asks the impossible. Yes, he likes the houses in your project, except he'd like *his* house to be quite different from all the rest—in everything but cost. In other words, he wants a custom job with a development price tag.

Impossible, of course. But in Haddonfield, N. J., a young builder named Bob Scarborough is doing very well on the theory that the closer you come to the impossible, the happier your buyers will be. His present operation includes three models, two splits and a ranch, and he's getting ready to add two more splits. Each model can be varied in several ways: materials, colors and elevations; and a drive through Barclay Farms, his latest development, is like a drive through a custom-built community.

The custom look is no accident. Before he turned to project building Scarborough was a highly successful custom builder, and this background comes through not

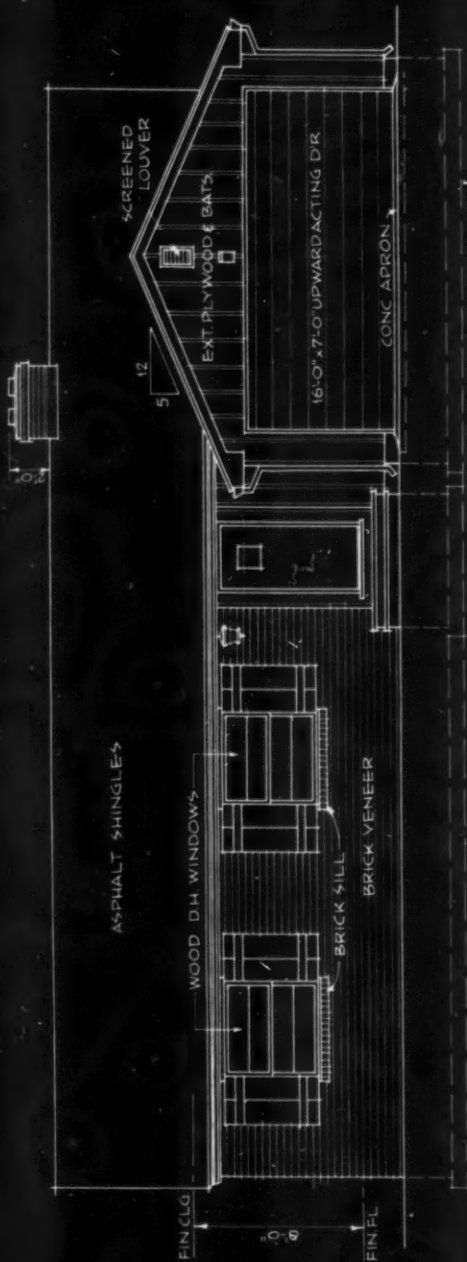
only in the way his houses look, but in the way they are built. Quality materials and workmanship are evident throughout.

American Builder has selected his "Cambridge" model as its Blueprint House because its one floor plan and generous size (1500 square feet of living space) are most typical of the custom market. And at a price of \$18,900 with all appliances, it's a whale of a good buy, as you will see for yourself on the next three pages.

AMERICAN BUILDER
BLUEPRINT HOUSE

235

5'-4" x 1"



FRONT ELEVATION

SCALE 1/8" = 1'-0"



REAR ELEVATION

SCALE 1/8" = 1'-0"

AMERICAN BUILDER BLUEPRINT SERIES.

10-56

SIMMONS-BOARDMAN PUBL. CORP., 30 CHURCH ST., NEW YORK 7, N. Y.



FLOOR PLAN
SCALE 1/8" = 1'-0"

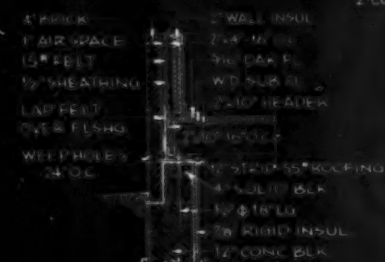


CROSS SECTION SHOWING TRUSSED RAFTERS

SCALE 1/8" = 1'-0"



SECTION THRU HEATER RM FLOOR



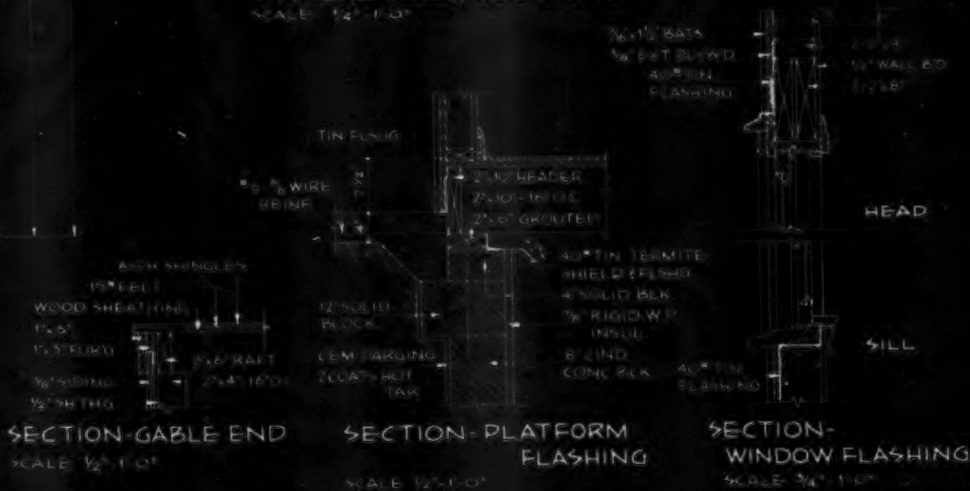
BRICK VENEER



FRAME

TYPICAL WALL SECTIONS

SCALE 1/4" = 1'-0"



SECTION - GABLE END
SCALE 1/2" = 1'-0"

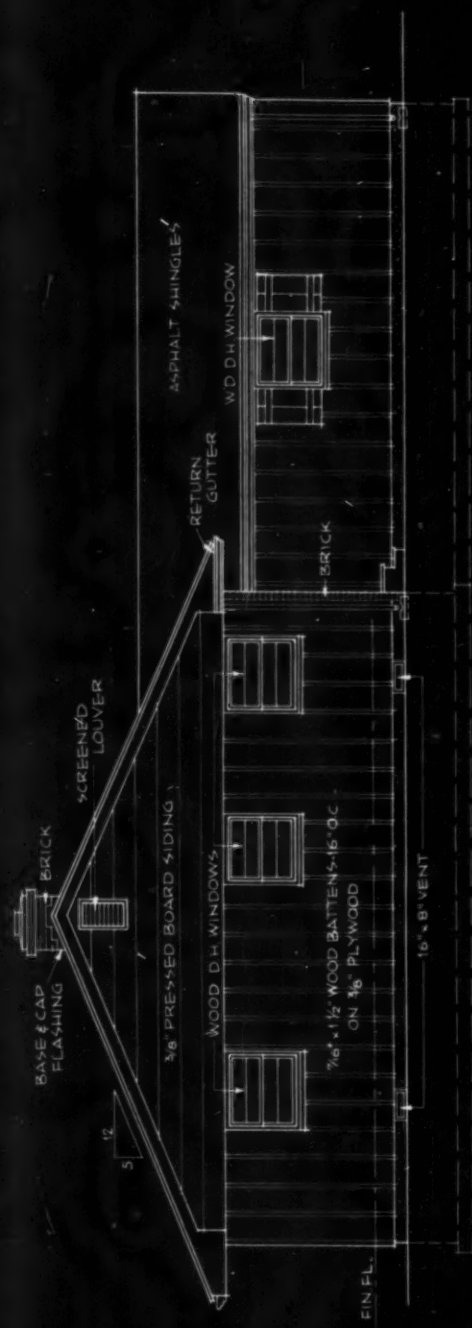
SECTION - PLATFORM FLASHING
SCALE 1/2" = 1'-0"

SECTION - WINDOW FLASHING
SCALE 3/4" = 1'-0"

NOTE ALL FOOTINGS BELOW FROST LINE
TO UNDISTURBED SOIL



RIGHT SIDE ELEVATION
SCALE 1/8" = 1'-0"



LEFT SIDE ELEVATION
SCALE 1/8" = 1'-0"

**. . . and here's how Scarborough
sold development houses**

to a custom market

One of the chief reasons for Bob Scarborough's success is that he is doing the type of building he knows best in an area he knows well. Haddonfield is one of the few "high grade" suburban areas left in the Philadelphia sphere.

When Scarborough started there, after the war, he built what the locale seemed to call for—custom houses. By the time his business had grown to the point where he was building about 150 such houses a year, he decided there was room for some top quality project housing in Haddonfield, and gradually changed his operation. When he started the 250-house Barclay Farms he had some 330 tract houses under his belt.

He knew the market

"If I tried to build beyond a radius of about ten miles from here," Scarborough admits, "I'd be lost. But I know this market." And his market knows him. When the first 62 houses of the Barclay Farms development were sold, 70 per cent of the buyers were local people, drawn by Scarborough's reputation as a custom builder. Proof that they trusted his work lies in the fact that many of them could easily have bought costlier non-project houses. Forty per cent took conventional mortgages; half of these made better than fifty per cent down payments, and ten houses were all-cash sales.

Products used: Upson primed siding and primed soffit; General Electric Air-Wall heating and cooling units; Minneapolis-Honeywell Moduflow heating control systems and Tap-Lite electric switches; Arcadia steel sliding doors and special windows; Atlas flush doors; Crane plumbing fixtures; Hotpoint dishwashers, garbage disposal units, wall ovens, counter ranges, clothes washers and dryers; U. S. Gypsum, National Gypsum and Ruberoid wall board; National Gypsum Gyproc sheathing; Baldwin Hill insulation; Ruberoid roof shingles; Kentile asphalt tile flooring; Visqueen polyethylene vapor barriers; Owens-Corning Fiberglas foundation insulation; Weyerhaeuser interior and exterior wood trim; Nutone and Progress kitchen exhaust fans; Progress electric fixtures; Arkland garage doors; Bruder interior paint, and Thompson, and Lucas exterior paints.



THE CUSTOM LOOK OUTSIDE. One of many combinations of materials and color, blueprint house is long, low, handsome.



THE CUSTOM LOOK INSIDE. Massive brick fireplace is focal point of living room. Note pass-through from kitchen.



A CUSTOM EXTRA. Folding door at left closes off study for TV use, childrens' playroom, or extra bedroom for guests.

PROJECT HOUSES WITH A CUSTOM LOOK continued



FIRST THING A BUYER SEES at model house is the front door, and this one should make a good first impression. Recessed design provides good foul weather protection. Brick step is another neat custom touch.



QUALITY WORKMANSHIP, one of Scarborough's strongest selling points, is the sum of many little things. Note the high quality of work on cornice detail. Gutters and downspouts are often omitted on development houses.

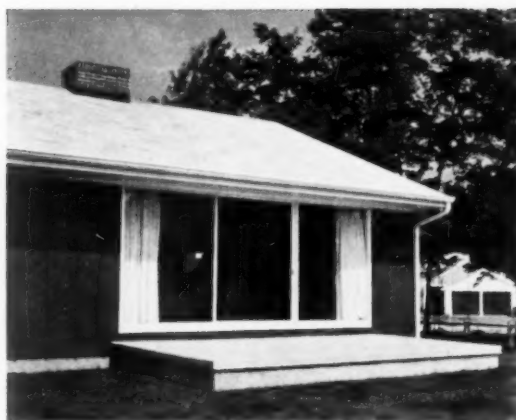


FULLY EQUIPPED COLOR KITCHEN is top single "extra value" item in Scarborough's Barclay Farms. Included are Hotpoint wall ovens, counter range, dishwasher, garbage disposal unit, clothes washer, dryer. Complete

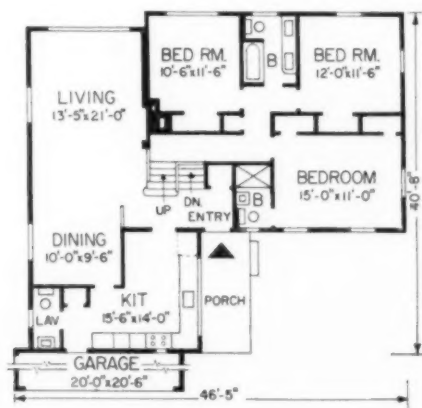
line of appliances like this is good deal for both builder and buyer; it is a strong merchandising aid, and can be included in mortgages, making it easier for buyer to carry. Also, quantity buying means lower buyer price.



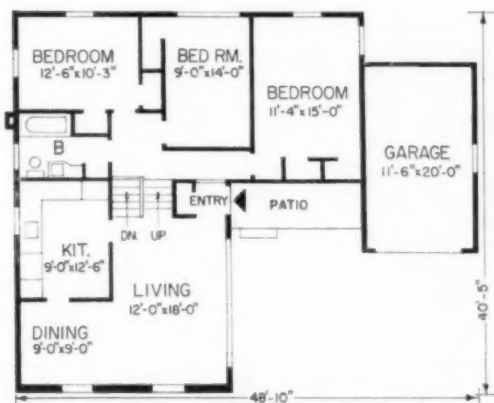
EFFECTIVE USE OF SIDING is seen with horizontal gable lines contrasting with battens below. Height of garage in relation to house can be shifted up and down to meet terrain changes, helps alter appearance of house.



OUTDOOR LIVING AREA is behind house, where sliding glass doors open onto concrete terrace. Board and batten siding is really plywood sheets with strips nailed over studs Scarborough borrowed it from his custom days.



BIGGEST OF SCARBOROUGH'S MODELS is the Wyndmoor, selling for \$22,500. Lower level includes a recreation room, hobby and storage rooms, half a bath. In addition, there are two and a half baths upstairs.



LOWEST IN PRICE and highest in sales is this little split, the Warwick. It offers about 1450 sq. ft. of living space, one car garage, kitchen with oven, range, dishwasher and disposer; for \$17,700, it is project's best buy.





For MAXIMUM
Sales Appeal, Scarborough

Customizes
His Homes with
Hotpoint
Customline
Appliances!



Bob Scarborough's homes in Haddonfield, New Jersey, are outstanding examples of intelligent architectural design and planning, implemented with sound construction, good materials, and first rate equipment. They sell from \$17,700 to \$22,500.

Every Scarborough home has its own unique appearance—based on Scarborough's appreciation of every family's desire to own a "one-of-a-kind" home.

Vital to the individuality and saleability of Scarborough homes are imaginative, varying arrangements of Hotpoint kitchen and laundry appliances in Hotpoint's 5 famous Colortones. Scarborough says, "Everyone *knows* you're giving them the BEST, when you give them Hotpoint!"

Like Bob Scarborough, let "Hotpoint Lead Your Homes To Market!" You'll find that only Hotpoint helps you CUSTOMIZE—and only Hotpoint offers builders ALL these advantages—

- The industry's greatest variety of built-in models, prices, features, Colortones, and finishes—
- Low-cost "builder-engineered" installation—
- Product superiority that's recognized throughout America—
- Prices that mean Profits to builders!

It's a fact—whether you build homes selling for \$10,000 or \$100,000—the Hotpoint Line offers you maximum profits! Contact your Hotpoint Distributor's BUILDER SPECIALIST today—he'll prove that you'll make greater profits with Hotpoint than any other appliance line!

Exclusive Hotpoint Spot-Less Dishwashing

SELLS HOMES FASTER—

Outmodes All Other Dishwashing Methods



- **Your prospects are PRE-SOLD on Hotpoint Spot-Less Dishwashing**—by consistent, hard-hitting NATIONAL ADVERTISING!

The story of Hotpoint Spot-Less Dishwashing is being told in big, 4-color ads in the nation's leading consumer magazines. When women see the Hotpoint Dishwasher, they know they're getting fine equipment and a fine home.

- **Your prospects are PRE-SOLD** by confidence-building IMPARTIAL RECOMMENDATIONS!

The Hotpoint Dishwasher is the **ONLY** Automatic Dishwasher recommended in the last 4 years by one of the nation's leading consumer research organizations! And it has been consistently featured in editorial articles appearing in leading consumer magazines.

- **Your prospects are PRE-SOLD** by Hotpoint's unequalled PERFORMANCE and FEATURES!

Women want Hotpoint's wonderful work-saving features like pushbutton control and separate Roll-R-Racks. Consumer surveys prove conclusively that homemakers prefer Hotpoint's separate Roll-R-Racks $4\frac{1}{2}$ to 1 over loading procedures required with ordinary racks.

- **Hotpoint Dishwashers are easy to install**—Both drain and hot water connections can be made from the front, with gravity or pump-drain Dishwasher in place.

Available in 5 Colortones, Coppertone, or Customline Stainless Steel! Capitalize on the terrific "home selling" appeal of Hotpoint Dishwashers! Contact your Hotpoint Distributor's BUILDER SPECIALIST for the story.



Exclusive Spot-Less Dishwashing

Women are sold on this wonderful dishwashing method. Two 5-minute Spot-Less washes—with fresh detergent each time—scrub away every trace of food and film. Spot-Less second rinse eliminates spots on glass and silver! Super wetting agent is injected in second rinse—water spreads so smoothly, it can't form drops, can't dry as spots.

Your eyes tell you! Spotted glass (left) was rinsed in plain water. Sparkling glass (right) was rinsed the new Hotpoint Spot-Less way.

Look to **Hotpoint** for the finest...first!

HOTPOINT CO., (A Division of General Electric Company) 3600 West Taylor Street, Chicago 44, Illinois



Color Comes To The Kitchen with Customline Appliances. Make your choice from gleaming stainless finish, Coppertone and five new Colortones: Sunburst Yellow, Coral Pink, Meadow Green, Woodland Brown and Seafoam Blue.

Only Hotpoint brings you

LET HOTPOINT BUILT-INS REFLECT QUALITY IN YOUR HOME . . .

All built-ins aren't alike! Compare Hotpoint Built-In Ranges with those of the other 3 leading appliance manufacturers and you'll see that Hotpoint offers you *more models* to choose from . . . *more features* that help you sell your homes . . . *more profits* through faster turnover. And, Hotpoint offers you comparable superiority in built-in refrigerator-freezers and dishwashers as well.

The extra sales appeal of these superior appliances costs you no more, because Hotpoint wants the builder business and has the prices to get it! And, with Hotpoint Customline built-ins, you also enjoy all these additional advantages:

- Finest Quality
- Fast, low-cost installation
- High consumer acceptance
- Powerful national advertising
- Strong local merchandising
- Top appraisal value
- Exclusive kitchen design service

Whether you're building \$10,000 or \$100,000 homes, you'll find that Hotpoint variety—in models, prices and colors—is exactly right for your market. Hotpoint Customline built-ins will help you sell your homes faster, and at a *greater profit!* Contact your Hotpoint Distributor's BUILDER SPECIALIST today!

HERE ARE THE FACTS . . .

	Hotpoint	Major Brand "A"	Major Brand "B"	Major Brand "C"
Ovens				
Number of Models	5	2	1	2
Double-oven model	Yes	No	No	No
Rotisserie	Yes	No	Yes	No
Pushbutton Controls	Yes	No	No	No
Window in door	Yes	No	No	Yes

SURFACE UNITS

Number of Models	5	2	2	3
Pushbutton Controls	Yes	Yes	No	No
Faster-than-gas unit	Yes	Yes	No	No
Deep-well cooker	Yes	No	No	No
Plug-in French Fryer	Yes	No	No	No

Look to Hotpoint for the finest...first!

RANGES • REFRIGERATORS • AUTOMATIC WASHERS • CLOTHES DRYERS • DISHWASHERS • DISPOSALS[®] • WATER HEATERS • FOOD FREEZERS • AIR CONDITIONERS • CUSTOMLINE • TELEVISION
HOTPOINT CO. (A Division of General Electric Company) 3600 Taylor Street, Chicago 44, Illinois



Hotpoint 9-foot Modular Kitchen with high oven. Color is Sunburst Yellow.

so many profit opportunities!

9 FEET OF GLEAMING PUSHBUTTON LUXURY—

- ★ Deluxe Super Oven with Rota-Grill Rotisserie.
- ★ 4 Calrod® Surface Cooking Units, including raisable automatic unit under deep-well cooker.
- ★ Automatically-controlled Plug-in Griddle.
- ★ Deluxe pushbutton Dishwasher.
- ★ Disposall® Food Waste Disposer (optional)
- ★ Seamless, stainless steel countertop and sink with Wonderflo single control faucet.
- ★ Pushbutton controls and appliance outlets.
- ★ Roomy storage cabinets and drawers.

HOTPOINT MODULAR KITCHENS ARE COMPLETE... COMPACT!

Make your new homes the "talk of the town" with exciting new Hotpoint Modular Kitchens. Women prospects lose their hearts when they see the distinctive, compact beauty of colored, pushbutton appliances and the gleaming stainless steel countertop. Hotpoint Modular Kitchens are the *newest development* in kitchens... and the hottest sales feature to help you sell your homes.

Installation is fast and simple, with no fuss or muss—requires only normal skills and tools. There's no tricky hook-ups to cause expensive on-site slow-ups. These compact units save floor space, and give you complete freedom to plan kitchens that offer a new high in styling and convenience.

Hotpoint Modular Kitchens also offer an excellent profit opportunity! They can be included in FHA and VA mortgages for only a few dollars a month, and actually raise the mortgage evaluation of your homes. Available in 5 beautiful Colortones—Sunburst Yellow, Coral Pink, Meadow Green, Woodland Brown, and Seafoam Blue.

Be the first builder in your market to take advantage of this great new home selling feature. See your Hotpoint Distributor's BUILDER SPECIALIST today—he has the complete profit story on the new Hotpoint Modular Kitchens.

New "Kitchens by Keck"

16 pages of kitchen sketches and floor plans by the distinguished architect George Fred Keck, showing the design possibilities afforded by Hotpoint Modular Kitchens. Send your name and address with 25¢ in coin to: **HOTPOINT CO., P. O. Box 1527, Chicago, Illinois.**

Choice of LEFT-HAND or RIGHT-HAND MODELS



Available with cooking center at left or right end of unit at no extra cost. Provides greater planning freedom, enables you to reverse floor plans.



Floor Plan for a Quick Sale



723
Mocha

722
Mist Green

733
Beige

Gold Seal®

Sequin® unique modern

**textured linoleum—attracts prospects,
helps sell your houses faster.**

"Sequin" adds charm to any style of home, any room in the house. Equally important, "Sequin" inlaid linoleum offers advantages far beyond surface beauty.

Its exclusive SuperFlex® backing eliminates the need for lining felt, saving installation time and money. And since SuperFlex absorbs the strain of normal floor board movement, Gold Seal inlaid linoleum is not subject to cracking, thus reducing customer complaints. Unexcelled for new construction, it is also one of the best coverings for old wood floors when homes are remodeled.

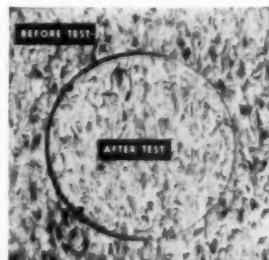
The "Sequin" pattern will be bright and clear after years of wear, for its colors are inlaid through to the backing. The colors are easy to decorate around. And of course this amazingly economical flooring fully meets FHA title I requirements.

Your Gold Seal Dealer is listed under "Linoleum" or "Floors" in the yellow pages of your phone book. Call him and see "Sequin" in 18 glowing modern shades.

Specifications: Standard gauge with exclusive SuperFlex backing for installation over wood, concrete, or ceramic tile, above grade floors; 18 colors in 6' widths by the yard. Also 7 colors in 1/8" gauge, burlap backing.

Abrasive Wheel Test proves "Sequin" Linoleum will "look like new" through long service life!

The circular "After Test" area is the result of applying the abrasive wheel to the "Sequin" sample. See how it has worn well through the linoleum—and yet the pattern is still there, as clear and sharp as ever! Compare it with the "Before Test" area. You can't tell the difference!



FOR HOME — BUSINESS — INSTITUTIONS:
BY THE YARD AND TILES—Inlaid Linoleum • Nairn® Plastics
Vinylbest® Tile • Cork Tile • Rubber Tile • Asphalt Tile
PRINTED FLOOR AND WALL COVERINGS—Congoleum® and Congowall®
RUGS AND BROADLOOM—LoomWeave®



FOR THE LOOK THAT'S YEARS AHEAD

Gold Seal®

FLOORS AND WALLS

*Trademark

at Barclay Farms

(near Haddonfield, New Jersey)



Robert Scarborough cuts costs ...
builds better homes in the \$18,000
to \$25,000 range with

UPSON

**SIDING, SOFFITS,
CARPORTS AND
PORCH CEILINGS**



Robert Scarborough prominent New Jersey builder, as he appeared on the job at Barclay Farms, near Haddonfield. Ninety homes, price-tagged between \$18,000 and \$25,000 have been sold in Barclay Farms and he expects to complete 150 more this year. At 33, Scarborough is president and sole owner of several construction firms.



how Robert Sca

UPSON PRIMED SIDING



Note straight and true edges with beautiful deep shadow lines. Front side and edges of each piece, uniformly primed at the factory with high efficiency resinous coating, developed by the Upson Chemical Corporation. One finish coat covers exceptionally well. Back primed for extra moisture protection. Each piece has superior water-resisting, wearing and painting qualities. And there's *less waste*. Cut to uniform size: 12' wide by 12' long. *No shorts*. Won't split, check, crack or splinter. Applied at site in easy, conventional manner. Yet Upson Primed Siding costs up to 35% less than regular wood siding. Wire or mail coupon.

Upson primed All-Weather panels for porch and carport ceilings

Upson will ship pre-primed panels in standard sizes for use on porch and carport ceilings. Apply and finish. What could be easier? Factory priming saves money, too. Custom-cut sizes can be furnished on quantity orders. Let us quote to your specifications. Wire or mail coupon.



U
ceiling
siding

94% wood

Scarborough uses UPSON PRIMED CUT-TO-SIZE SOFFITS



Upson delivered Primed Soffits, precision cut to Robert Scarborough's specifications for use at Barclay Farms. Pre-cutting at the Upson factory costs less than cutting on the job. Soffits are complete, ready to apply. Can be supplied with vents, too. Just nail in place and apply finish paint. No waste. No prime paint to buy or apply. Upson Primed Soffits are of the highest quality—yet *moderately priced*. Meets and exceeds minimum F.H.A. and V.A. construction requirements. Wire or mail coupon.

UPSON

wall and
ing products
ng, sheathing



ood fibers laminated for great strength

THE UPSON COMPANY

000 Upson Point, Lockport, New York

I am interested in the Ready-to-Apply material checked

- ☐ Primed Siding ☐ Primed Soffits
☐ Carport and Porch Ceilings

NAME

FIRM

STREET

CITY

STATE

at Barclay Farms

(near Haddonfield, New Jersey)



Robert Scarborough cuts costs ...
builds better homes in the \$18,000
to \$25,000 range with

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**SIDING, SOFFITS,
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tools will keep you competitive

moving jobs step up tractor utility



TRENCH-HOG is Arps low cost tractor attachment to handle big yardage jobs. It is available in three boom lengths, with digging depths of $3\frac{1}{2}$ to 7'; cutters available 6 to 20" wide. **Circle No. 10002 on reply card, p. 134.**



COMBINATION backhoe and loader by Ottawa is shown here on new International Harvester W-400, is also available for W-600, W-300. Common frame for both units is designed to cut strain on tractor frame. **Circle No. 10003.**

more materials faster and higher



PORTABLE BELT CONVEYOR by Mulkey has a vertical lift of 20' at 30°; 8' extensions available. Companion model elevators move blocks, roofing etc. Telescoping under-carriage balances and is easily towed. **Circle No. 10005.**



75 BLOCKS on one pallet with Sherman fork lift speeded Orlando, Fla., Colonial Shopping Center job by R. M. Thompson Co. Load went direct from delivery truck to mason's platform. **Circle No. 1006 on reply card, p. 134.**

▼ **Power tools are faster, safer, more powerful**



POWER HAMMER, under 13 lb., drills holes up to 1½" diameter in toughest materials. Spring floated piston, neoprene mounted nozzle, induction hardened helical gears are featured in the Remington Rand H54U. It delivers up to 2300 blows per minute. The crank assembly is counter-balanced. Switch is sealed against dirt. **Circle No. 10007.**



SAFETY RETURN device, De Walt Spir'Ator automatically returns carriage and cutting member of radial arm wood-working machines to rear idle position as soon as operator relaxes his forward pull on the motor carriage. The device, which is spring actuated, is made for De Walt by Hunter Spring Co., Lansdale, Pa. **Circle No. 10008.**



INSIDE CUT with Wen Model 505 sabre saw needs no starting hole. Air stream blows dust off guide line. Saw goes through wood or plaster, handles easily in overhead or vertical position. It is recommended for mounting attic and exhaust fans, radio speakers, and cabinet work. **Circle No. 10010 on replay card, p. 134.**



LEFT OR RIGHT hand saw table No. 777 by Maxaw for saw models 717, 737 or 747, permits all bevel, depth, miter and ripping adjustments. Saw is removed quickly. Capacity is 2½" at 90° and 1½" at 45°. The saw shoe fits flush with the table top, which is 24" wide, 20" deep; legs are 34" long. **Circle No. 10011 on reply card.**

and versatile



FOUR MINUTES to cut warm air duct opening (including 2x4 plate and direct cut into floor without starting hole) with B.C.S. Super Saw. Instant removal of saw from drill is made possible by a patented type of lug drive that provides a positive connection between the saw and the $\frac{1}{4}$ " electric drill. **Circle No. 10009 on reply card.**



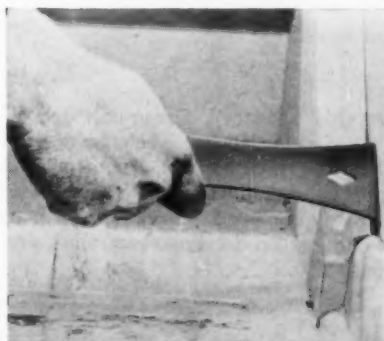
BEVEL CUTS on either side up to 45° is feature of Black & Decker jig saw No. 11. It has full one inch stroke; 2" depth at 90° , $1\frac{1}{2}$ " at 45° . Shoe adjusts to any angle. The weight of the Heavy Duty jig saw is 6 lb. A metal-cutting blade and three high speed wood cutting blades are included. **Circle No. 10012 on reply card, p. 134.**

OCTOBER 1956

▼ **HAND TOOLS CONTRIBUTE
SPEED, STRENGTH AND
ACCURACY AT LOW COST**



CHALK LINE by Evans, also used as plumb bob, has flush rewind handle; brake locks reel. Chalk refills through cap at plumb tip. **Circle No. 10013 on reply card.**



MOLDING REMOVER, Red Devil's Li'l Jimmie, also loosens windows, pulls nails, etc.; is of $\frac{1}{8}$ " thick carbon steel, 10" long. **Circle No. 10014.**



STRAIGHT SEAMS on drywall are promised by new Goldblatt "Speedy Sparker"; takes roll $2\frac{1}{2}$ " up to 250' long, is easily refilled. **Circle No. 10015.**

... **MORE TOOLS AND EQUIPMENT, PAGE 155.**



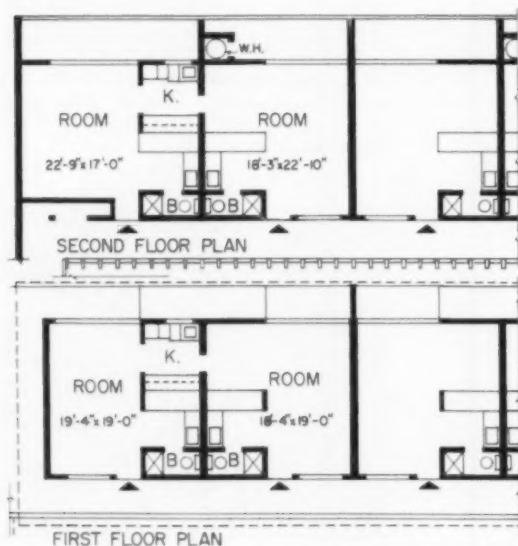
OASIS IN DESERT is the Oja. Located in Apple Valley about 120 miles from Los Angeles, it has huge tiled pool in rear for customers to cool off in. Timber structure was built by Bennington & Smith from designs by architects Robert H. Thomas, AIA, and Lee Stegner, AIA, his associate in the enterprise.



FRONT BALCONY provides spectacular perspective from either end through shadow pattern thrown by louvers—not for sun protection.

This "motel of tomorrow" pulls

This two-story, fifteen-unit deluxe motel has a circular lounge, balconied upper floor and heated swimming pool. Rooms will have individual air conditioning units (one-ton Vernado), are already equipped with Stewart-Warner gas heaters. For more on dressing-room units, see Detail Plate, page 280.

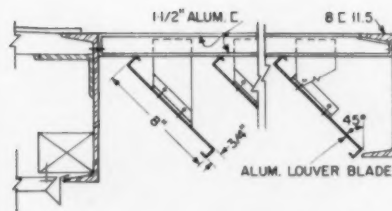


TYPICAL ROOM UNITS are asphalt-tiled downstairs, carpeted on upper floor. Sliding glass doors, (Arcadia) lead to private balconies. Building of insulated frame, wood paneling and plaster construction cost owner \$112,000.

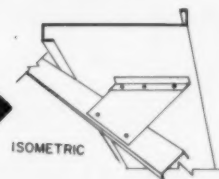




MAIN ENTRANCE TO MOTEL is at center, where walk leads past manager-owner's office to heated pool in rear. Parking space is under balconied upper story. Louvers were installed for design purposes only; motel faces North. Stair treads of poured concrete have V-shaped metal pans.

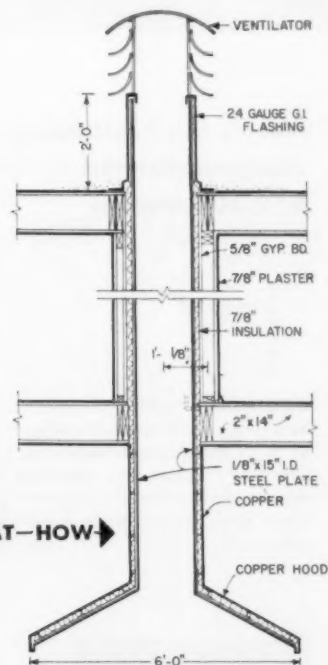


←WHAT—HOW→

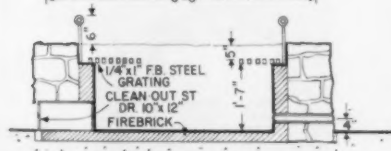


FOR EXTRA \$3,000 owner Robert Oja had 93 aluminum louvers installed. They create interesting pattern on face of building, especially when light shows through them.

big business today



←WHAT—HOW→



CIRCULAR LOUNGE has huge circular fireplace. Late-driving tourist can see glow from fire for miles. Fireplace has glass fibre insulation under hood of copper.



Here's the basic house,
designed for the
\$12,500 market

ORIGINAL PLAN provided three bedrooms, one and a half baths, 1,100 sq. ft. of living space. Note brick wall adjoining fireplace and separating living and dining rooms, a touch of elegance unusual in a house in this low price range.

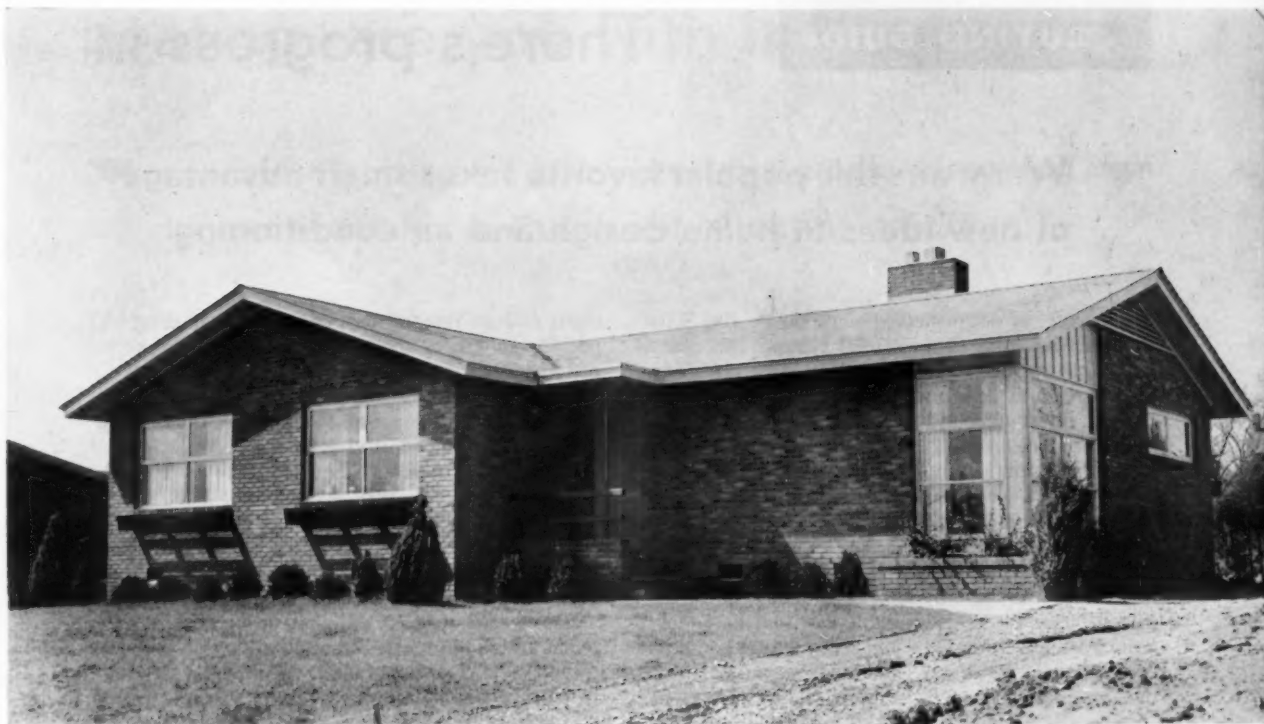


**BUILDER GEORGE S.
GOODYEAR**

How to make one plan

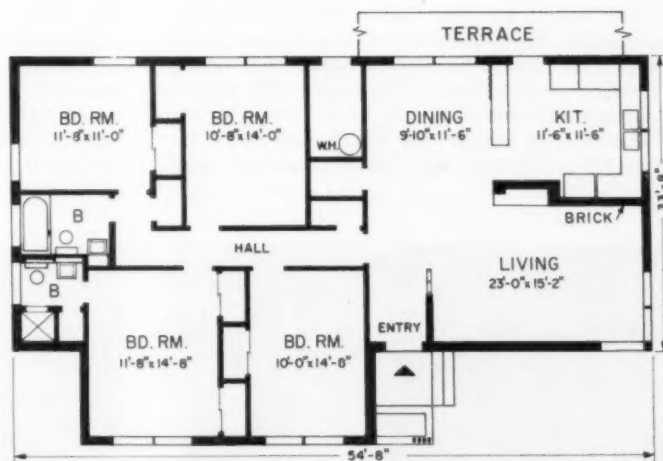
Want to upgrade your houses for a changing market? Compare the two models above. Then look at the plans. Neat, eh?

Shows what an imaginative architect (R. Emory Holroyd & Associates) and a skilled builder (George S. Goodyear) can do with a good basic



**And here's the way it's
expanded for the
\$18,500 market**

LARGER VERSION of same design includes a fourth bedroom, two full baths, and 1,600 sq. ft. of space. By orientation of house on lot, any number of front elevations can be obtained, with living room or kitchen in front or rear.



cater to your two biggest markets

plan to cover a broad and growing market.

Both houses are part of an 850-unit subdivision, Selwyn Park, in Charlotte, N.C. Built over a period of several years, it typifies the well planned communities for which Goodyear has earned a national reputation.

George Goodyear, who is first vice president of the National Association of Home Builders, builds and develops houses in several locations, with a wide range of price tags. He's also a mortgage banker. As an expert on mortgage financing, he's represented NAHB at Congressional hearings.

There's progress in

▼ Warm air: this popular favorite takes smart advantage of new ideas in home design and air conditioning

Progress has not neglected warm air heating. Like other methods of residential heating, this oldest and most popular system has kept pace with new ideas in house design and construction, air conditioning, filtering, sound control and insulation.

Furnace design is flexible. For attics and crawl spaces, horizontal units take little space. For slab construction, counterflow furnaces installed in closets or utility rooms send heated air through ducts imbedded in the concrete to the perimeter.

Two shortcomings of the warm air system are now being overcome by the "tight house" construction brought in by air conditioning and new techniques in insulation. The old leaky house required continual heating of new cold air from outside; and this dry cold air brought inside humidity way down.

"Use the same ductwork for air conditioning" is now one of the best arguments for warm air heating, but it can be a boomerang. A blower sized for warm air may not be adequate for cooling; and a balanced heating system may not match zoned cooling requirements. A well-planned year-round system with a/c built in from scratch is the ideal. Next best is a properly planned layout with room in the plenum for future add-on a/c.

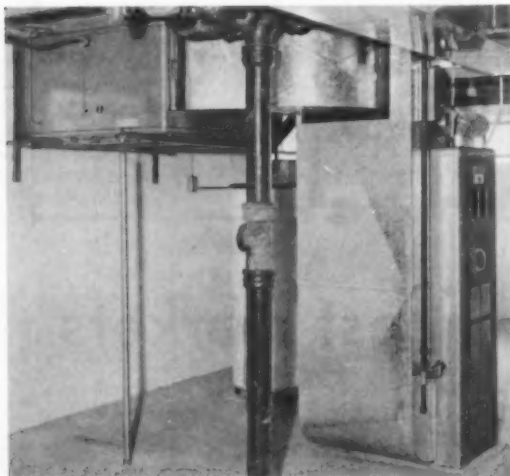
The filtering action that has helped make the words air conditioning mean much more than cool-

ing is now an integral part of warm air heating, especially in "tight" houses where return air keeps getting cleaner in its trips through the filter.

One of the oldest examples of warm air heating, the hypocaustic furnace and under-floor ducts in the baths of Caracalla in old Rome, is brought up to date by a floor panel system described by the National Concrete Masonry Association. The floor is constructed of hollow concrete block units of which the cores act as the ducts and lead to baseboard registers, thus giving the benefits of both radiant and convective heat. Downdrafts and the directional effects of cold walls are eliminated.

The ultimate in year-round conditioning is found in the Hathaway Manor subdivision begun last year by Vorhof-Duenke Inc., St. Louis. The \$19,000-21,500 houses are cooled in summer with automatic dehumidification, heated with automatic moisture control, filtered constantly with electrostatic grids, and purified 24 hours a day with an electronic lamp. The entire system is linked into one automatic operation with switches and thermostats.

Thoroughly tested before being purchased for a total of 3,000 houses, the system developed by Harvey-Hill Inc. cost \$207.60 for a full year's run, for heating, cooling and between-times filtered circulation, including water, current and gas.



FLUSH UP against the floor joists, the 2-ton a/c unit of the Harvey-Hill system uses nine gallons of water a day in a porous nylon jacket "soaker" coil helping cool the refrigerant in the evaporator. Circle No. 10016.



RADIANT ELECTRIC baseboard has independent thermostat. Electriling Quartzheat units in 1836 sq. ft. home of C. A. Wulf, Jr., Indianapolis, cost \$175 to operate for a 5,650 degree day winter. Circle No. 10017 on p. 134.

heating: are you with it?

▼ . . . but electric and hot water systems are moving up to expand sales in the quality heating market

Electric heat and "wet" (hot water and steam) heat have this in common: they can make much of the advantages of radiant heating, as supplied by various types of panels or baseboards.

Hot water coils for radiant heat usually go into the slab floor, sometimes into the ceiling; electric resistance wire or blanket goes into the ceiling, covered by plaster or drywall. Thus the whole floor or ceiling acts as a single panel, radiating warmth directly upward or downward. In the process the windows and outside walls, main routes of heat loss, are warmed, without air movement.

Baseboards have both radiant and convective effect. Heat rays move directly out into the room from the horizontal resistance element or finned hot water tube; but also room air is drawn under the heating element and warmed as it passes upward into the room by convection.

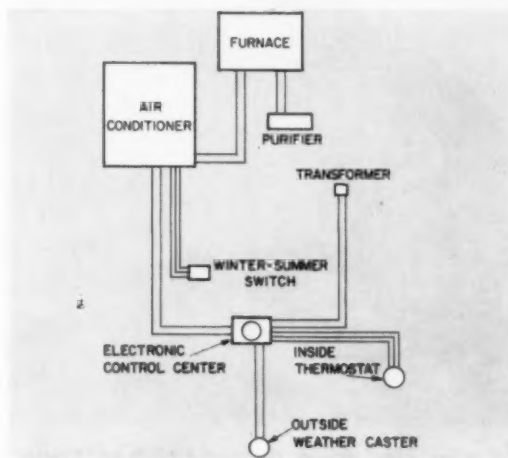
Be cautioned about claims for radiation as the "sunshine" kind of heat. True, the sun warms by radiation, but the health-giving sun rays are different from the simple heat radiation in the home.

The main appeal of radiant heating is the overall and continuous effect of warmth. Radiation in home heating, whether baseboard or panel, electrical or hot water, warms an entire room simultaneously. It affects solid surfaces sooner than it warms the air, so that there cannot be a simultaneous feel-

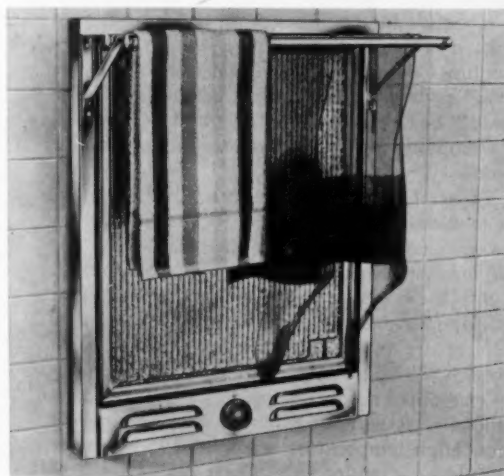
ing of stuffiness (from warm air) and of chill (from loss of body heat to still-cold surfaces). Also, radiation continues after the boiler or resistance coil is turned off.

Air conditioning raises some knotty problems. Electric resistance heating requires a separate cooling system. But the electricity-run heat pump can operate two ways: you can cool the interior by heating the outdoors, as with any refrigeration unit; but by reverse cycle, you can heat the interior by taking heat from outdoors, even when the weather is near freezing. The new GE room model year-round heat pump is fit into the Thinline design for in-wall installation, and is equipped with supplementary resistance heating that cuts in when outside temperature falls below 42°.

Some hot water heating systems use the same piping for chilled water in summer, with the addition of a condensate trough and drain and a central air circulator, as in the Vulcan plan. Other hot water systems use room convectors for warm and chilled water, but with independent thermostats and blowers. The experimental valance system developed by the John B. Pierce Foundation utilizes convection for heating and cooling, while Dr. Clarence Mills' trough near the ceiling carries hot and chilled water pipes and uses radiation from reflective surfaces only.

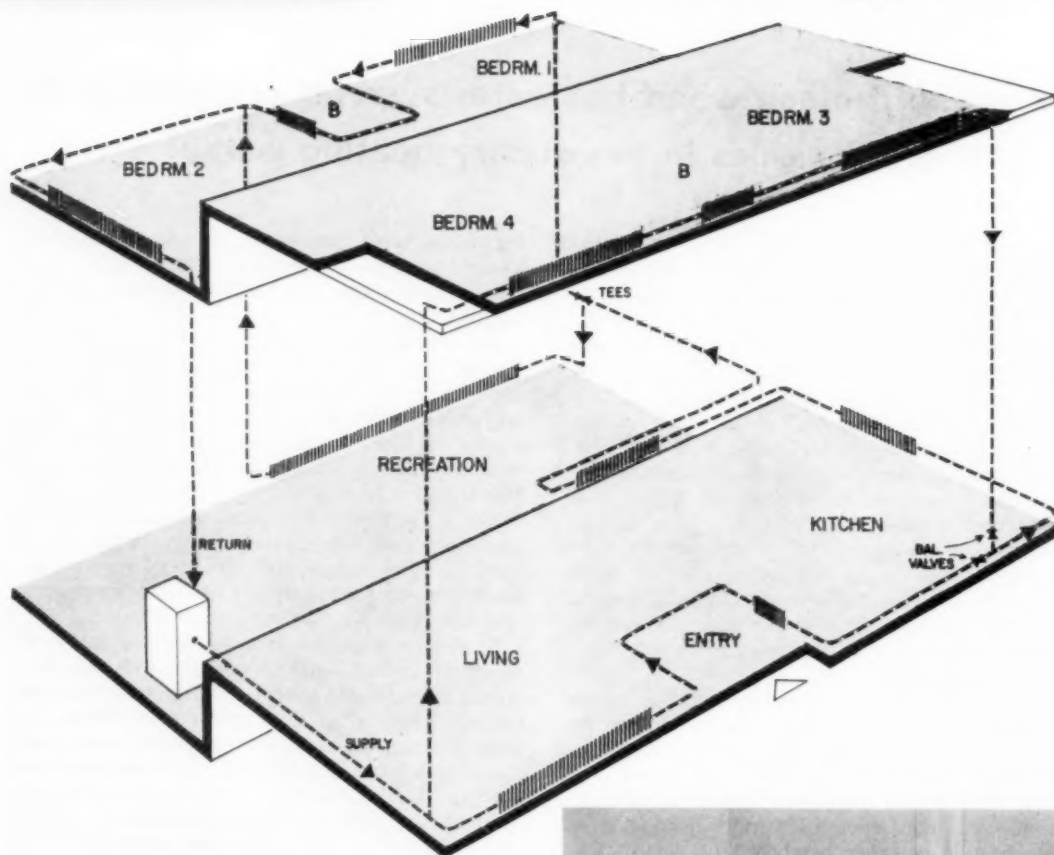


THREE PRECISION INSTRUMENTS control the system. Outside electronic thermostat raises or lowers settings of the inside thermostat, which signals control center in kitchen to adjust basement plant.



BATHROOM PANEL with radiant glass element, by Continental, has two towel-lingerie bars; it may be surface-mounted or recessed and comes in various finishes. Note thermostat knob for controlled heat. Circle No. 10018.

How to get hot



Nat Siegel declared that "50% of my prospective buyers ask for hot water heat" in a talk at a conference of the Better Heating-Cooling Council, recently organized to promote "wet" systems. And 80% of Siegel's prospects for his Fern Homes in Babylon, Long Island, are shopping for second homes, and know their minds.

To get hot water heat into a \$14,290, eight room four-level, Siegel had to plan hard. He got installation time down to a single day for two men per house, putting in 99' of baseboard. Tight scheduling was the key. Sheetrock men would make partial installation of lower panels, then return when the baseboard men were through. The baseboard system of pre-cut heating elements and enclosures lends itself to continuous runs without multiple feed and return lines. High temperature water at 195° permits 40% less radiation, 10% lower cost. Domestic hot water works from the boiler.

Siegel has used both Vulcan and Slantfin baseboards. Young, Webster and Hydrotherm also offer well-known wet heat packages.



2. YOU SIZE YOUR BASEBOARD RADIATION

DOUBLE FINNED ELEMENT is used for large bedroom. Siegel avoids end pieces and decking under floor by using a straight run and a wall-to-wall enclosure. Hot water at 195° reduces radiation needed.

water heat into a \$14,290 house



1. YOU PLAN HOUSE AND HEATING TOGETHER FOR STRAIGHT-LINE RUNS

PIPING PLAN (left) shows straight runs through rooms and relation of two circuits: one for lower levels and living room; the other for the upper level, with a combined return to boiler at bedroom No. 2.

FERN HOMES retain same heating system in three versions of same plan. Nine and ten room plans add dining room and patio or breakfast room. Siegel builds 150-200 houses a year, in \$14-16,000 range.



3. YOU COORDINATE CARPENTRY, DRYWALL AND PLUMBING SCHEDULES

CARPENTER helps by cutting away nailer for sheetrock, saving heating men a job. Riser will turn under nailer for a single long run through front bedroom partitions, from left to right of house. After drywall . . . the plumbing

work, by Norfeld of Elmont, N.Y., brings in the hot water lines. Baseboards are mounted when lower course of drywall is installed, then drywall men can finish up at will. Framing plan can ignore heating work.

Complete your quality picture...



with a Ro-WAY garage door

A house is the sum of all its parts—not the least of which is the garage door. And since today's modern garage is integrated with the house design, it is an important part of the *home* in the buyer's mind.

That's why it's smart sales psychology to install Ro-Way doors on all your residential garages.

A Ro-Way door completes your quality picture. Its handsome appearance, distinctive features, and outstanding reputation tell a quality story your prospects can understand. And it goes a long way toward making them feel you've built quality into the entire house.

With buyers becoming more quality-conscious, Ro-Way garage doors are a "plus" that makes your sales job easier. See your Ro-Way distributor for full details, or write us direct for descriptive literature.

Only a GARAGE Offers:

- COMPLETE PROTECTION
- EXTRA STORAGE SPACE
- FINISHED APPEARANCE
- AN EXTRA ROOM

Nationwide sales and installation service. See your classified telephone directory for nearest Ro-Way Distributor

Ro-Way Quality Helps Sell the Home

- Outstanding designs—including a wide range of exclusive carved raised panels, flush sections, decorative molding and rosettes—for every style of architecture
- Mortise and tenon joints both glued and steel pinned
- Taper-Tite track and graduated Seal-A-Matic hinges for tight closing, easy opening
- Power-Metered springs individually balanced to the weight of each door
- All hardware Parkerized and painted for maximum rust prevention
- From start to finish, every door, including all millwork and hardware, completely fabricated by Rowe.



there's a Ro-WAY
for every Doorway!

RESIDENTIAL • COMMERCIAL • INDUSTRIAL
ROWE MANUFACTURING CO.
779 Holton St., Galesburg, Ill.

The Payoff Departments

New Products and Catalogs..... page 155 →

Builders' Supermarket for new products and equipment, and for manufacturers' literature, on tools and equipment, lighting, baths and kitchens, floors and walls, winter building, heating and ventilating. Just detach the handy reply card at the beginning of the Supermarket and go right on through, circling the items that mean money in your pocket.

How To Do It Better..... 229 →

All these ideas have been tested and found helpful by other builders and are now presented here for your own use. This month's items include a material-saving method for framing soffits, a way to neater fascia corners, a spray-gun nozzle cleaner, and leak-proof gutters.

Ask The Experts..... 232 →

Got a problem you can't solve? Our staff of experts analyzes reader queries, and may have some valuable tips for your operation. This month, the experts discuss proper placement of ventilating fans, methods of apartment-house bracing, insulating a crawl space, and tree flashing.

Convention Calendar..... 238 →

Here is American Builder's listing of all association meetings scheduled to take place in the near future. Check these listings for the meetings you want to attend . . . these are the places to learn what your fellow-builders are doing.

Keeping Up With The Law..... 242 →

American Builder's legal consultant, John F. McCarthy, offers valuable advice to builders on questions involving the law. This month, Mr. McCarthy discusses discrimination against the use of a particular building material.

Better Detail Plate..... 280 →

Here, in detailed drawings and text, is the plan for the dressing-rooms for a California motel (see pages 120-121). Save these pages; you'll be glad you did.

The Month Ahead..... 284 →

Things for alert builders to think about in November.



Builders throughout the country report Carpet Sells Homes Faster

Builders throughout the country are moving homes faster by including carpet in the package price. By eliminating the cost of finished floors and installing wall-to-wall carpet directly over sub-flooring, builders can offer their prospects an opportunity they can't refuse.

Women want carpet. Surveys prove they prefer it 13-1. But when a family's buying, their cash and credit are tied up — they feel they can't afford the floor they want. But when you offer carpet to them in a new home, they buy the home faster.

Discuss this with your local carpet retailer. He can

offer two extremely valuable services: 1. A broad selection of merchandise, with the showroom facilities and knowledge to service your buyers. 2. Skilled carpet layers to install wall-to-wall carpet.

Your local lending organizations will be able to work out, with you and your carpet retailer, the most satisfactory financing plans for you.

Find out how you, like hundreds of other successful builders, can use carpet as an effective selling tool. See your local carpet retailer today, or write the Carpet Institute, 350 Fifth Avenue, New York, N. Y.

Home means more with carpet on the floor — more comfort • quiet • safety • beauty • easier care

Buy carpets designed and made for the American way of life by these American manufacturers:

Artloom • Beattie • Bigelow • Cabin Crafts-Needletuft • Downs • Firth • Gulistan • Hardwick & Magee • Hightstown • Holmes Karastan • Lees • Magee • Masland • Mohawk • Nye-Wait • Philadelphia Carpet • Roxbury • Sanford • Alexander Smith

CARPET INSTITUTE, INC., 350 Fifth Avenue, New York 1, N. Y.

Come Back Here!

Don't you
for the NAHB Convention
Product Show Issue
coming



dare leave
without the
of American Builder...
in January

It's a Preview. What's your guess? What will be the talk of the trade at the NAHB Convention? The business outlook?...credit?...FHA Standards?...built-ins?...split levels? Get the inside story...a run-down before the curtain goes up. In AMERICAN BUILDER's January Product Show Issue. Here it is...with no punches pulled. People and politics, plastics and prefabs. The works! What clinics, panels and demonstrations will you want to attend? Read the January issue.

A Product Show. Boy oh boy! You'll feel like a kid at the circus...you won't know what to look at first. New and improved products?...Over 400 strong. All pictured and described in this one issue. The very same products that will be exhibited at the Convention. There's sales and profit builders a'plenty here. But don't rush. Look them over one at a time. Read about them. Which can you use? Note the complete information...manufacturer's name and address...hotel and booth exhibit number. Want more information? A Reader Service postcard supplies it. It's that simple.

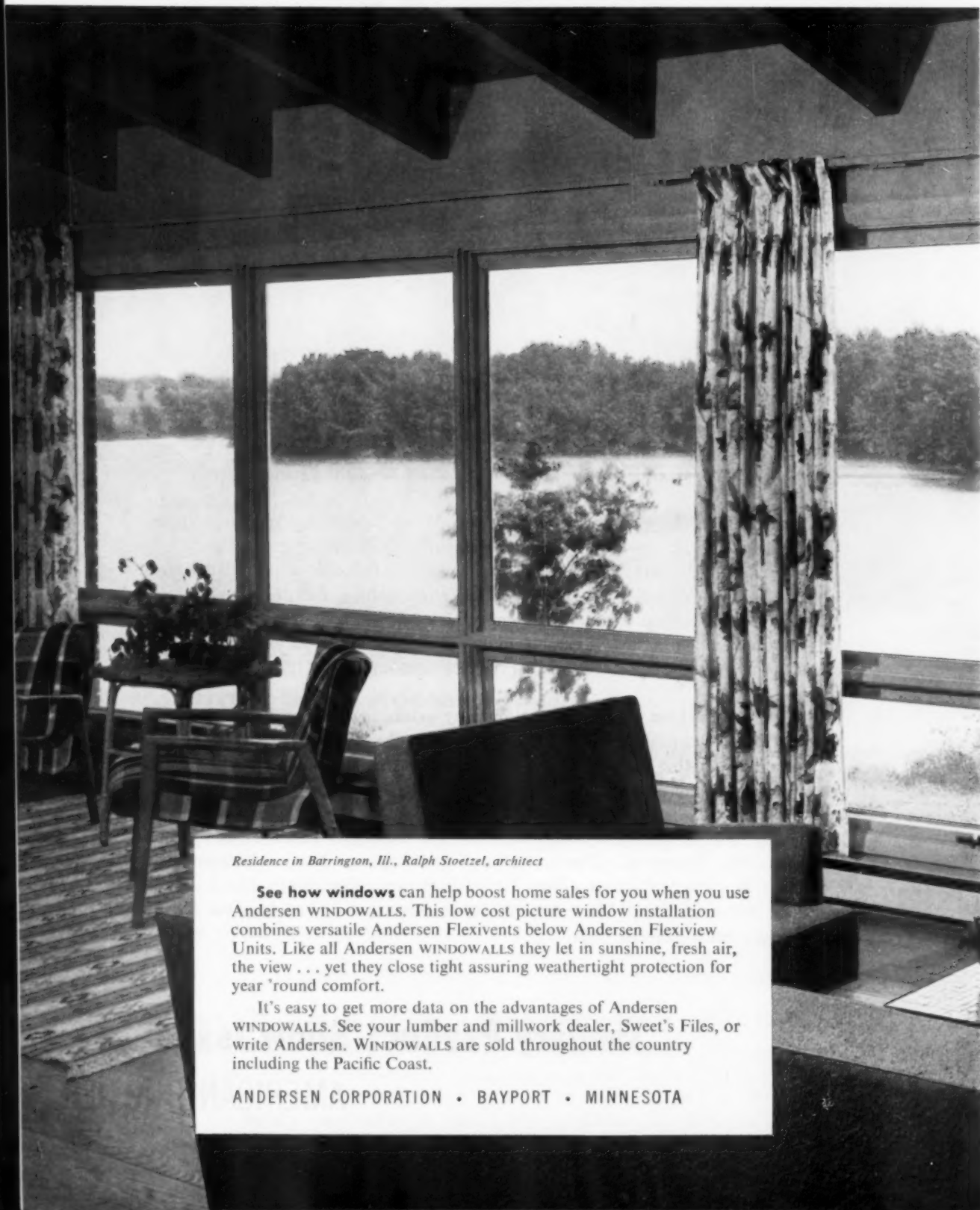
A Guide, A Checklist. What's Zilch Company exhibiting? Where? Don't miss a thing at the Convention. Check AB's Guide and Checklist. It's an alphabetical list of every participating manufacturer...the product...the hotel and booth number. Read over the complete list. Check those you want to see.

And More! Plus all the features and editorials that make AB such a profit-packed package...The Opportunity Page...National and Regional News...Dickerman's Column...Northrup's Column...How To Do It Better...The Month Ahead...and all those "What to build," "How to build it" features that pay off for you. All in the January issue. Coming soon!

January Product Show Issue

AMERICAN BUILDER

Turn window beauty into home sales



Residence in Barrington, Ill., Ralph Stoetzel, architect

See how windows can help boost home sales for you when you use Andersen WINDOWALLS. This low cost picture window installation combines versatile Andersen Flexivents below Andersen Flexiview Units. Like all Andersen WINDOWALLS they let in sunshine, fresh air, the view . . . yet they close tight assuring weathertight protection for year 'round comfort.

It's easy to get more data on the advantages of Andersen WINDOWALLS. See your lumber and millwork dealer, Sweet's Files, or write Andersen. WINDOWALLS are sold throughout the country including the Pacific Coast.

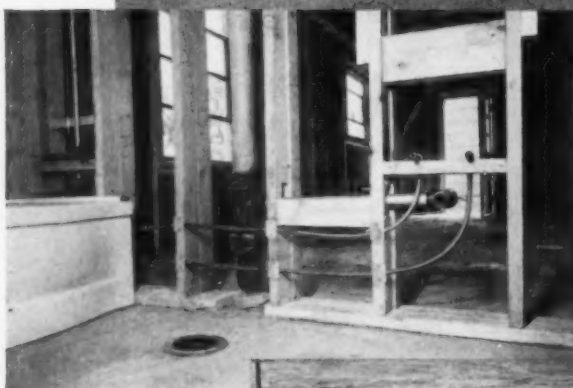
ANDERSEN CORPORATION • BAYPORT • MINNESOTA

Andersen *Windowalls*

TRADEMARK OF ANDERSEN CORPORATION



"WE SAVED \$50



(Above) Typical bathroom hook-up with Revere Copper Water Tube. Note how the contractor, CLAY-POL PLUMBING & HEATING COMPANY, used steel plates where tube crosses the two-by-fours. This permits tube to be placed in notched studs with ease and without sacrificing protection of the tube. Also, consider the time and number of joints and fittings saved by bonding the soft copper tube in concealed locations like the one shown.



(Above) Here you see a 1½" Revere Copper Water Tube, Type "L" drainage line running from the kitchen sink before concrete slab was poured. Note how builder took advantage of the single, long, light, straight lengths of Revere Copper Water Tube... no extra joints, caulking or thread cutting here. In addition the builder had no fear of copper rusting when buried in the concrete slab. Revere Copper Water Tube also was used for service lines and internal water distribution.

Shown directly above is one of the homes erected by GRANT-HOLLADAY in Newcom Knolls, a suburb of Dayton, Ohio. These homes are prefabs with an option of 4 bedrooms or 3 bedrooms and a dining room. Lots average 60' x 125'. Full price is \$10,750. This house is typical of the more than 1,100 which GRANT-HOLLADAY plans on erecting in Canton, Youngstown and Piqua, Ohio.

When you consider that GRANT-HOLLADAY saves \$50.00 per home by using Revere Copper Water Tube and then multiply this saving by the 1,700 homes they have completed and plan to erect, you have a saving of \$85,000! And that, Mr. Architect, Mr. Builder and Mr. Contractor, "ain't hay!"

If that kind of money can be saved in homes within this price range, think of the savings that can be realized when you get into the higher price brackets. That's why it will pay you to plan on copper in all your future homes... for underground service lines, hot and cold water lines, radiant panel heating, air conditioning, drainage, waste and vent lines. See your Revere Distributor. And if there is anything involving the installation of Revere Copper Water Tube that's bothering you, he'll be glad to put you in touch with Revere's Technical Advisory Service.



Revere Copper and Brass Incorporated
Founded by Paul Revere in 1801
230 Park Avenue, New York 17, N. Y.

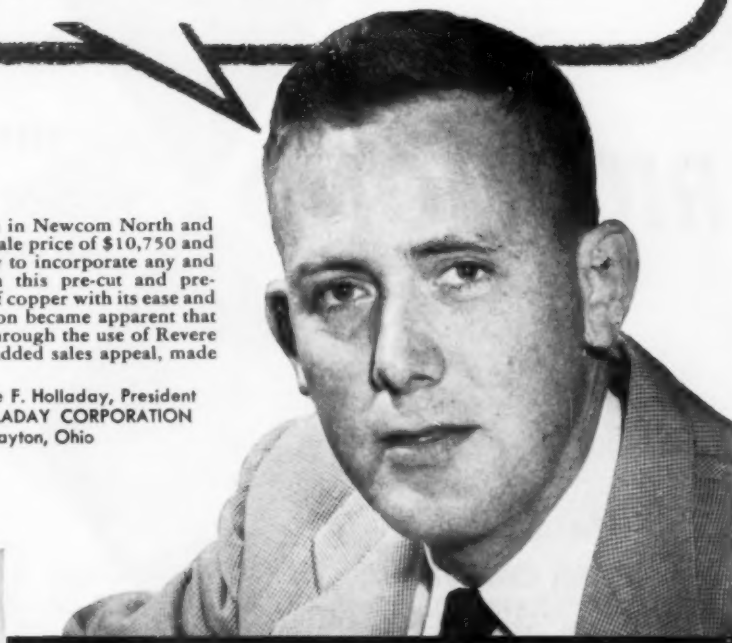
Mills: Baltimore, Md.; Brooklyn, N. Y.; Chicago, Clinton and Joliet, Ill.; Detroit, Mich.; Los Angeles and Riverside, Calif.; New Bedford, Mass.; Newport, Ark.; Rome, N. Y.

Sales Offices in Principal Cities, Distributors Everywhere.

PER HOUSE by using **REVERE COPPER WATER TUBE** in our plumbing and drainage lines"

"To enable us to construct these houses in Newcom North and Newcom Park and sell them at the low sale price of \$10,750 and still make a profit, it has been necessary to incorporate any and all time-saving devices available. With this pre-cut and pre-assembled type of construction, the use of copper with its ease and speed of installation was dictated. It soon became apparent that the \$50.00 saving per house effected through the use of Revere Copper Water Tube, coupled with the added sales appeal, made copper the logical choice."

Says, Wallace F. Holladay, President
GRANT-HOLLADAY CORPORATION
Dayton, Ohio



"This business of contractors saying that copper is expensive to install is being disproved every day. Our experience has proved just the opposite. Copper water tube not only does *not* cost more to install than rustable materials, it actually costs less . . . in the case of these homes that GRANT-HOLLADAY built it was \$50.00 less, *per home!* The reasons are obvious: solder fittings, fewer fittings, long lengths, ease of handling and bending, and the prefabrication of certain assemblies in the shop."

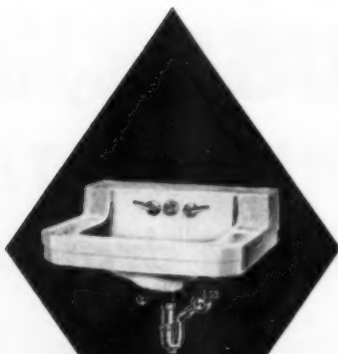
Says, Charles Claypool, President
CLAYPOOL PLUMBING & HEATING COMPANY
Kettering, Ohio

"We have furnished CLAYPOOL PLUMBING & HEATING COMPANY with approximately 160,000 pounds of Revere Copper Water Tube for the 1,700 homes that GRANT-HOLLADAY is building. Handling Revere Copper Water Tube is good for us, not only from a prestige standpoint, as contractors and builders know it is of the highest quality, but I've found that when Revere says they'll deliver on a certain date, they deliver . . . and that's mighty important to a distributor."

Says, R. J. Makarius, President
ACME PLUMBING SUPPLY COMPANY
Dayton, Ohio



RICHMOND



the fastest
growing name in
plumbing fixtures

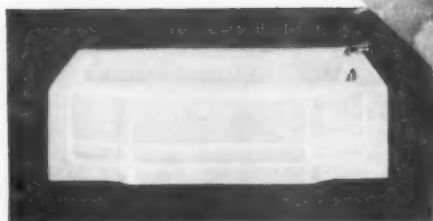
...THE COLORS- choice of seven sparkling pastels or famous Richmond "Whiter-White."

...THE STYLING- designs to fit every plumbing need-residential, commercial, industrial.

...THE ENGINEERING- quality-controlled manufacturing that gives lasting consumer satisfaction.

...THE BRAND ACCEPTANCE -building steadily through extensive national advertising.

TO BUILD YOUR
REPUTATION FOR QUALITY
AND BRING SALES YOUR WAY



RICHMOND

PLUMBING FIXTURES

DIVISION OF RHEEM
MANUFACTURING COMPANY
16 Pearl Street, Metuchen, New Jersey

WRITE FOR NEW ILLUSTRATED CATALOG

WHY SETTLE FOR LESS?

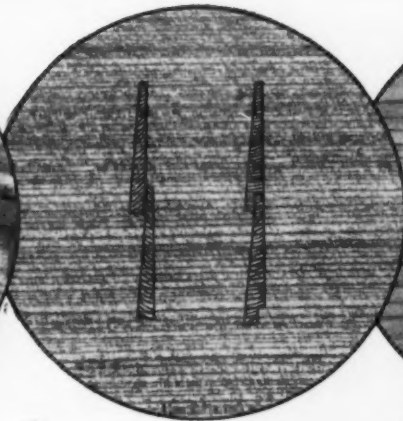
you can be sure of all these 3 premium qualities at no extra premium in cost **ONLY** with

PALCO®  Architectural Quality Redwood



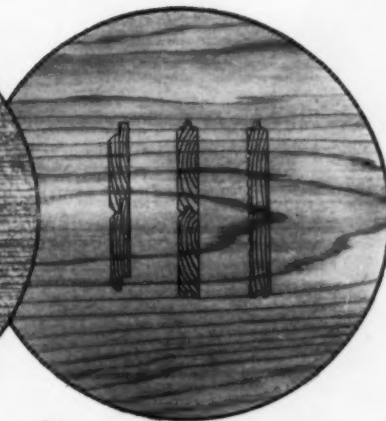
1 CERTIFIED DRY

All PALCO Architectural Quality Redwood is Certified Dry—permanent assurance of minimum shrinkage, swelling or distortion. Following proper air seasoning, it is cured in one of 25 modern kilns under rigid temperature and humidity controls. In an exclusive PALCO process, moisture content of each kiln charge is then equalized.



2 VERTICAL GRAIN ONLY IN ALL RESAWN SIDING

If flat grain blanks are resawn, every alternate piece faces the heart and tends to "shell out" after long exposure. Pacific resaws only vertical grain blanks—your assurance of virtually ageless appearance, resistance to weather, and permanently ideal surface for painting. Only PALCO Architectural Quality insures this value.



3 FLAT GRAIN PATTERNS RUN TO CONTROL "SHELL OUT"

Flat grain is often desirable for beauty and functional requirements. Pacific's exclusive handling systems control every step of manufacture to see that the pattern is run on the proper face. It's the bark side of flat grain that's normally resistant to "shell out" after long exposure. Only PALCO assures this premium.

Specify the best in Redwood

PALCO®



See Sweet's Architectural File, or send coupon for your personal copy of this aid to redwood specification—and informative booklet "From Out of the Redwoods"

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Please send me without obligation:

- ☐ Reprint of Architectural File Bulletin outlining specification data, PALCO Redwood patterns, sizes, grades, grains, etc.
☐ "From Out of the Redwoods"—colorful booklet showing how PALCO Redwood and Redwood Products are produced.

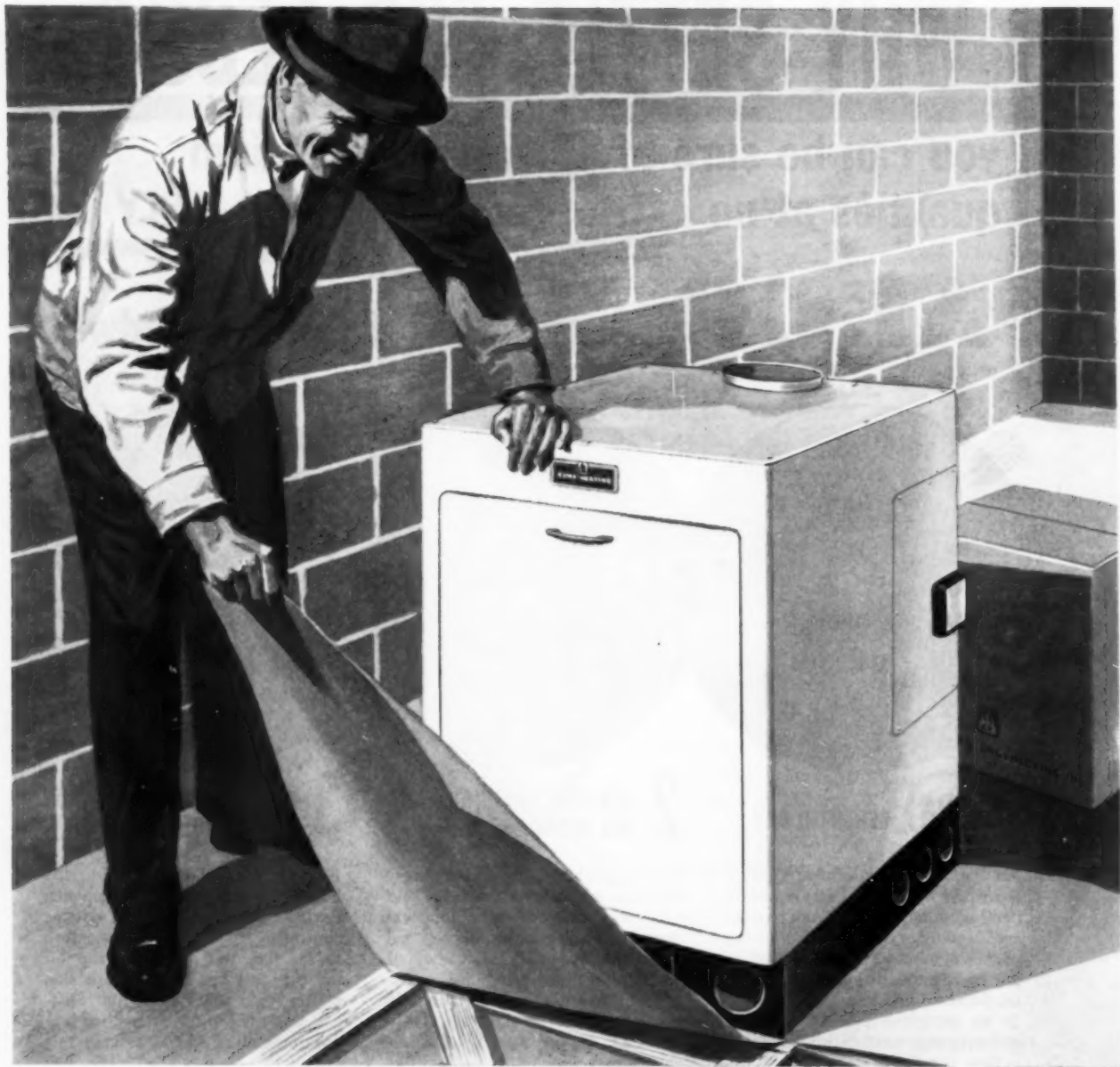
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Ready for immediate installation

Packaged Heatmaster heating unit is easily the best way to winterize a home!

C-E has designed this small gas fired home heating unit for use with any type of hot water radiation. It is shipped as a *completely assembled* boiler—absolutely no on-the-job assembly is required! Occupies

only four square feet of space. Can be installed almost anywhere in the house. Approved for use on combustible flooring too!

Pre-engineered and packaged

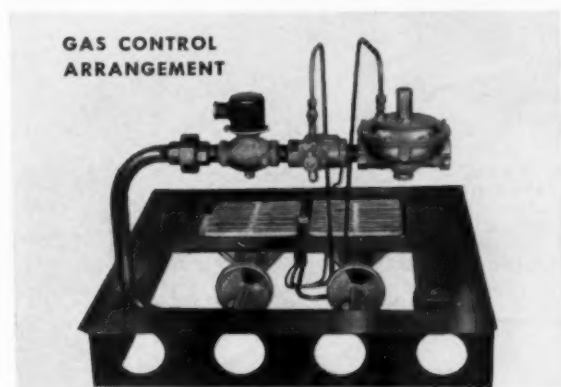
Simple gas and water connections to boiler are made external to the unit. No assembly or connections necessary to be made within the cabinet. All operating parts are in place for easy installation. Every C-E Home Heating unit is equipped with

these standard furnishings: Circulator, expansion tank, gas regulator, gas automatic pilot and safety valve, gas flue diverter (draft hood), control relay, gas control valve (solenoid), tube brush, temperature, pressure and altitude gauge, drain valve, manual air vent and complete internal wiring and piping ready for system hookup.

Patented features

C-E's patented aluminized steel burners are designed for use with all domestic gas fuels. The gas control arrangement, consisting of gas pressure regulator, automatic safety cut-off and solenoid is in place and is readily accessible for easy servicing.

The boiler heating surface consists of 92 feet of 1" steel tubing. Tubing is bent by C-E's exclusive process and welded in accordance with ASME code.



**GAS CONTROL
ARRANGEMENT**

Small radius bends and compact tube arrangement make for maximum transfer of heat to water. Small water volume of the C-E boiler (approximately 3 gallons) provides efficient utilization of fuel and practically instantaneous response to heating demands.

Add air conditioning

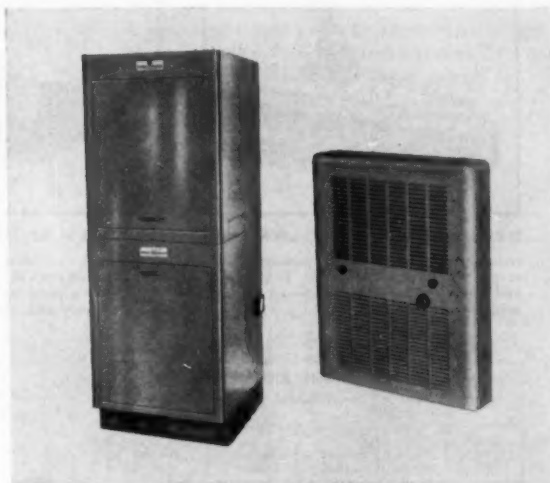
Homeowners desiring the comfort of air conditioning can add a chiller unit to the system at a later date. The boiler is specifically designed for this addition. If C-E room convectors are used and piping properly insulated with original heating installation, the summer air conditioning can be accomplished by simple interconnections between boiler and chiller units.



**BOILER
HEATING
SURFACE**

About C-E

The C-E domestic home heating unit is built by Combustion Engineering, one of the world's largest manufacturers of steam generating equipment, with 70 years experience and "know how." Combustion Engineering is currently designing a steam generator for the Philadelphia Electric Company power station which will be the most efficient station in the world. This C-E steam generating equipment is being designed for 6000 psi to produce steam at 1200°F. This will be the highest pressure and temperature ever projected for utility stations. This is an example of the kind of work that typifies the company behind the C-E home heating unit.



Take advantage of the many benefits C-E Heatmaster Home Heating and Air Conditioning offers by sending for more information now.

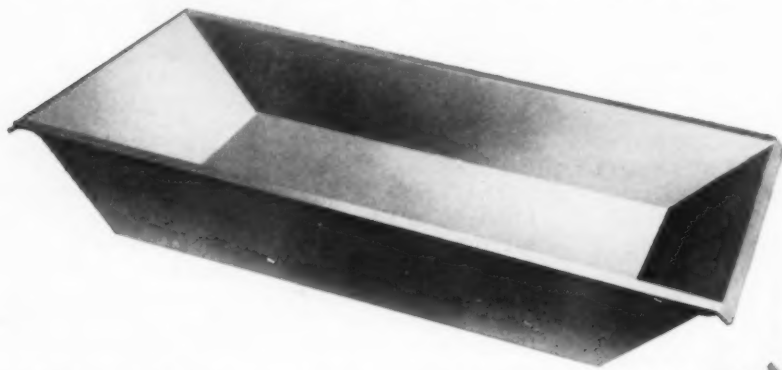


HEATMASTER

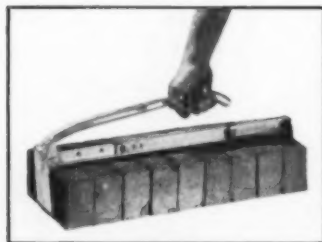
The easiest way to winterize a home

COMBUSTION ENGINEERING INC., Home Equipment Division, 911 West Main Street, Chattanooga 1, Tennessee

take a good look at
Donley Steel Mortar Boxes

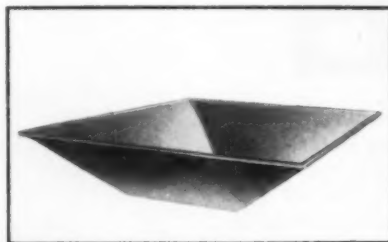


**Fast mixing and cleaning are assured . . . steel interior will not "dig up" or splinter . . . is free of rivets and other obstructions. *Leakproof construction provides accurate mix every time. *One piece (14 or 16 gauge) steel body with welded joints provides long service life. Entire top edge is angle-iron reinforced for rigidity and easy grip. Corners are rounded for safety. *Donley Mortar Boxes nest for storage . . . serve as weather-tight roof when turned upside down over perishable materials.*



DONLEY BRICK CLAMP

reduces handling time . . . quickly adjusts to carry from 8 to 13 bricks. It is strong and lightweight . . . picks up and releases load instantly.



DONLEY MORTAR TUB

is all steel . . . ideal for plastering, tile setting or small-job masonry. Easy to handle and to step across when used on the scaffold. It is leakproof, cleans quickly and can be used to mix small batches.

SIZES, DIMENSIONS AND WEIGHTS

Note: Number of box indicates approximate cubic foot capacity.

Order by No.	Width Inches	Length Inches	Depth Inches	Shipping Weight Lbs.
31	42	110	12	190
22	42	86	12	155
14	36	68	12	124
9	28	70	10	79
6	24	53	9	52
Donley Mortar Tub	23	30	6	18

6670-DB

Write today
 for literature.



Donley
 THE BROTHERS COMPANY

13910 Miles Avenue, Cleveland 5, Ohio



IT'S EASY . . . IT'S SPEEDY



SIMPLY SLIP THE HALVES TOGETHER IN THE OPENING AND NAIL IT TO THE WALL



Simply drive nails at 1, 2 and 3! There is nothing to saw, plane, bore or mortise!

- Can be installed in 20 minutes.
- Fully adjustable for wall thicknesses from 4 3/8 inches to 5 1/2 inches.
- Looks identical to conventional door frames when installed.
- Fasteners on mitre joints in the trim keep mitres tight indefinitely.
- Does not require special framing of the rough opening.
- Made left and right in all standard sizes for inside doors.
- May be installed by the average home mechanic.
- Furnished in a variety of door and trim styles. Any combination of trims and door styles can be had by special order.
- Saves money and elapsed building time.
- Crated* for delivery with joints square and tight.

* PAT. NO. 2489029

A door and frame packaged unit complete with the door hung and locked and the frame trimmed both sides, ready to install in any rough opening in 20 MINUTES.



PAT. NO. 2489029

**READY HUNG DOORS
MADE BY THESE LEADING
WHOLESALE**

LUMBER DEALER

CALL YOUR

ALBANY, N. Y.
Iroquois Millwork Corp.

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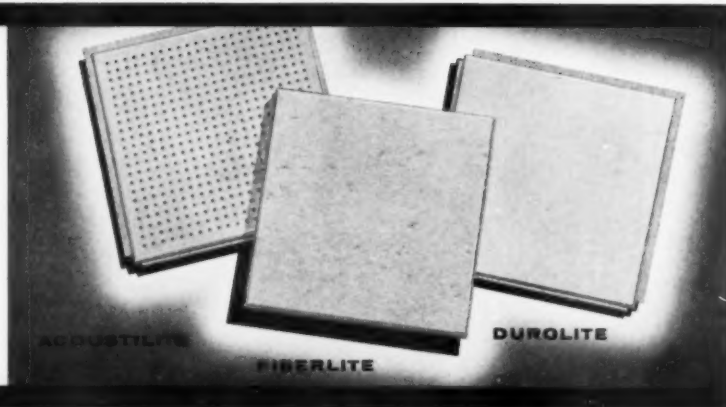
WACO, TEXAS
Frank Stevens Sash & Door Co.

READY HUNG DOOR CORP., FORT WORTH 2, TEXAS

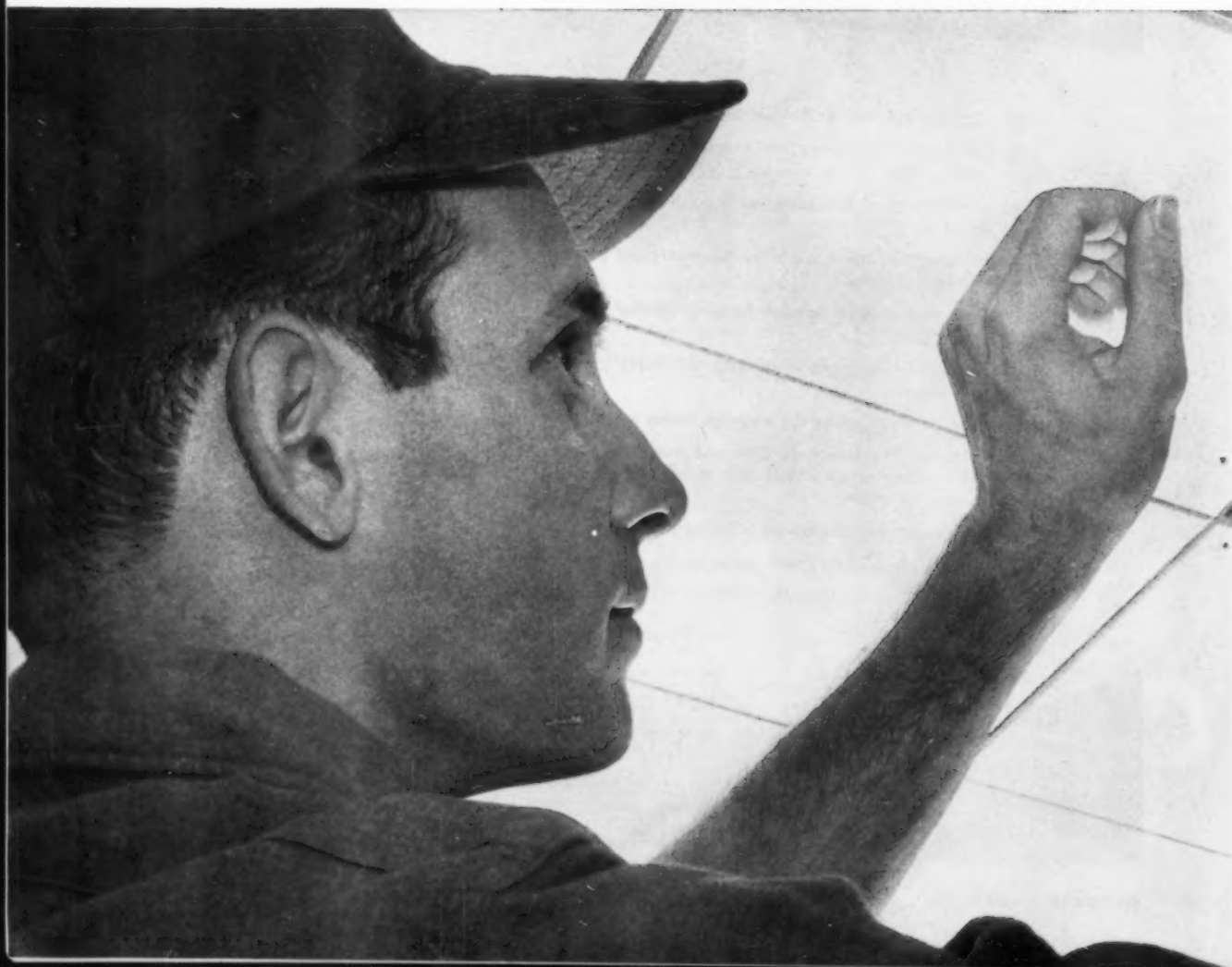
It's prepainted... it goes up fast

Insulite has the right tile for every modernization job

Choose from Acoustilite (regular or random drilled), Durolite (slightly textured), or Fiberlite (a travertine-type textured surface). For low cost and tough, scrubbable finish, we especially recommend Durolite. Insulite lines offer a variety of sizes, thicknesses, finishes, in flanged T&G or precision-cut butt edge types. Apply T&G tiles with staples or nails; butt edge types with adhesive.



INSULITE, ACUSTILITE, DUROLITE ARE REGISTERED T.M.'S U.S. PAT. OFF. FIBERLITE T.M.



it's washable... ...it's Insulite

Want to develop some nice business in Operation Home Improvement?

For new additions, remodeling, recreation rooms, attic rooms, or modernizing and repair of older homes, the results you get with Insulite ceiling tiles are *spectacular*. The job goes lightning fast. Even men with little experience can do beautiful work.

It's a sparkling-clean, prepainted ceiling. And where quieter rooms are desired, Fiberlite and Acoustilite tileboard smother noise with remarkable effectiveness.

Here, then, is your key to more and better home improvement contracts. For selling help, see your lumber dealer or write Insulite, Minneapolis 2, Minn.

build better and save with
INSULITE



INSULITE, Made of hardy Northern wood

Insulite Division of Minnesota and Ontario Paper Company, Minneapolis 2, Minnesota



300 ft. of

Key



SO EASY TO USE. Just unroll it on the wall to the length required. Lays flat on the block. Short pieces may be used without waste by lapping ends. Easy to fit around pipes, conduits, and ducts.

KEY-WALL rolls are 150 ft. long. It is made for 4", 6", 8", 10" and 12" wall thicknesses. It's galvanized to prevent rust; always gives maximum bond.



KEY-WALL is lapped at corners without adding thickness to the joint; without special cutting and fitting. It's easy to build up Key-Wall reinforced corners.

- wall

GALVANIZED MASONRY REINFORCEMENT

The new masonry reinforcement that gives **greater value** at **lower cost**

That's right. One man easily carries 300 ft. of KEY-WALL. Galvanized, it needs no protection from weather on the job. It requires little space on the scaffold. It is easy to cut. Material cost is low. Labor cost is low.

Yet it gives superior reinforcement to masonry. For full details on reinforcement, write for the summary of tests by the Research Foundation, University of Toledo.



MORTAR FLOWS READILY around KEY-WALL to give full embedment, as well as maximum reinforcement value. Tests show an exceptional bond.

MASONS LIKE the way mortar flows over Key-Wall; the way it aids full embedment; the way blocks settle in place without interference.

FREE—SAMPLE AND TEST REPORT

Keystone Steel & Wire Company
Peoria 7, Illinois

Please send me sample and test report on KEY-WALL.

Name

Firm

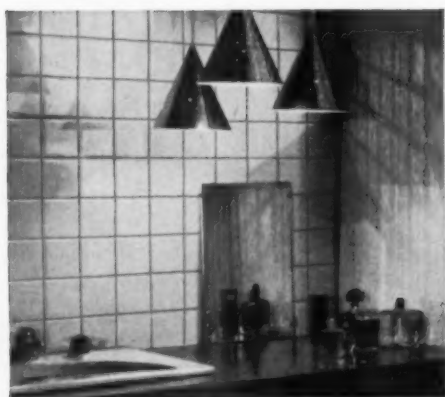
Street

City State



THE LUXURY LOOK

Home buyers are sold on
the beauty . . . quality . . . easy care
of Guaranteed Plastic Wall Tile
made of Styron



It's the look of luxury that sells homes these days. And you can give your homes this big selling feature easily with guaranteed plastic wall tile made of Styron®.

Designs are unlimited with regular and king-size squares and modern brick shapes . . . with colors that run the gamut from softest pastels to rich, deep tones. Trust Styron plastic wall tile to bring your plans to life with permanent beauty.

There's profit for you, too, with Styron plastic wall tile. It goes on quickly and easily . . . eliminates the need for costly, time-consuming pre-preparation. Your Styron plastic wall tile supplier will give you the guarantee of quality that has sold America on the luxury look. See him today! THE DOW CHEMICAL COMPANY, Midland, Michigan, Plastics Sales Department PL 419M.

For the kitchen the luxury look is also the most practical. Smooth, lustrous Styron plastic wall tile is a homemaker's dream to keep sparkling clean. Colors won't chip or peel or wash away . . . spots and splashes wipe away in a jiffy. Today, the kitchen sells the home . . . and Styron plastic wall tile sells the kitchen!



Wherever beauty must be practical . . . from smart, modern dining areas to hallways, recreation rooms, utility rooms, powder rooms . . . Styron plastic wall tile is your answer. Here is wall beauty that sets the pace for casual, colorful living . . . beauty with the quality guarantee. And remember, there are shapes and colors in Styron plastic wall tile to accent your every plan.

THESE ARE YOUR GUIDES

The emblem (left) identifies the certified dealer who will give you a written guarantee (center) covering plastic wall tile, mastic and installation which conform to quality standards established with the U. S. Dept. of Commerce, Bureau of Standards—CS 168-50. The Styron label (right) is added assurance of the best in polystyrene plastic.

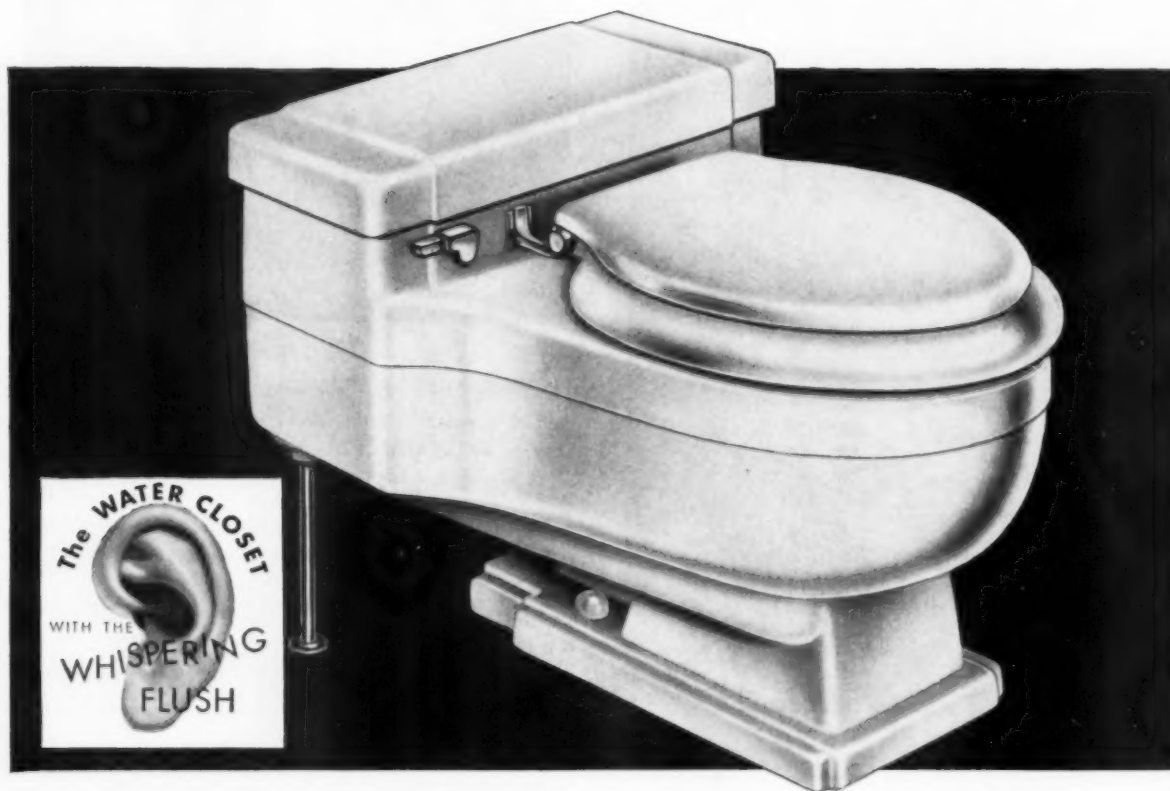


you can depend on DOW PLASTICS



WATER WORRIES BANISHED!

NON-OVERFLOW
WATER CLOSET
HAS WHISPERING
FLUSH!



Here is the most wanted, most trouble-free water closet you can offer. It's the famous CASE Non-Overflow One-Piece* that hushes rushing water down to a WHISPERING FLUSH. Every time you install a CASE Non-Overflow One-Piece, you'll build your profits and your reputation because it's the finest water closet available.

Look at these sure-fire sales features. *Non-overflow bowl; safeguarding antisiphon ballcock; healthful seat height; streamlined, up-to-the-minute design, time*

*PATENTED

tested, with the whispering flush that's already known throughout the industry.

FOR EXTRA PROFITS, SELL COLOR! REMEMBER, ONLY CASE MANUFACTURES COLORED FIXTURES WHICH CORRESPOND IN COLOR TO THE COLORED FIXTURES PRODUCED BY LEADING COMPLETE-LINE MANUFACTURERS, PLUS SPARKLING BLACK AND WHITE. ASK YOUR CASE WHOLESALE OR WRITE:

CASE MANUFACTURING CORPORATION

33 MAIN STREET, BUFFALO 3, NEW YORK

W. G. BEST HOMES CO.

PRESENTS THE FIRST HOME
ESPECIALLY DESIGNED FOR
THE FAMILIES OF

Mid-America

DISPLAYED AND
SALUTED
AT THE

MID-AMERICA
JUBILEE



BEST

THE BEST COMMUNITIES OF TOMORROW ARE BUILT WITH **BEST TODAY!**

the Best Mid-American...

PACE-SETTING THE

BEST TEAM OF 1957 HOMES

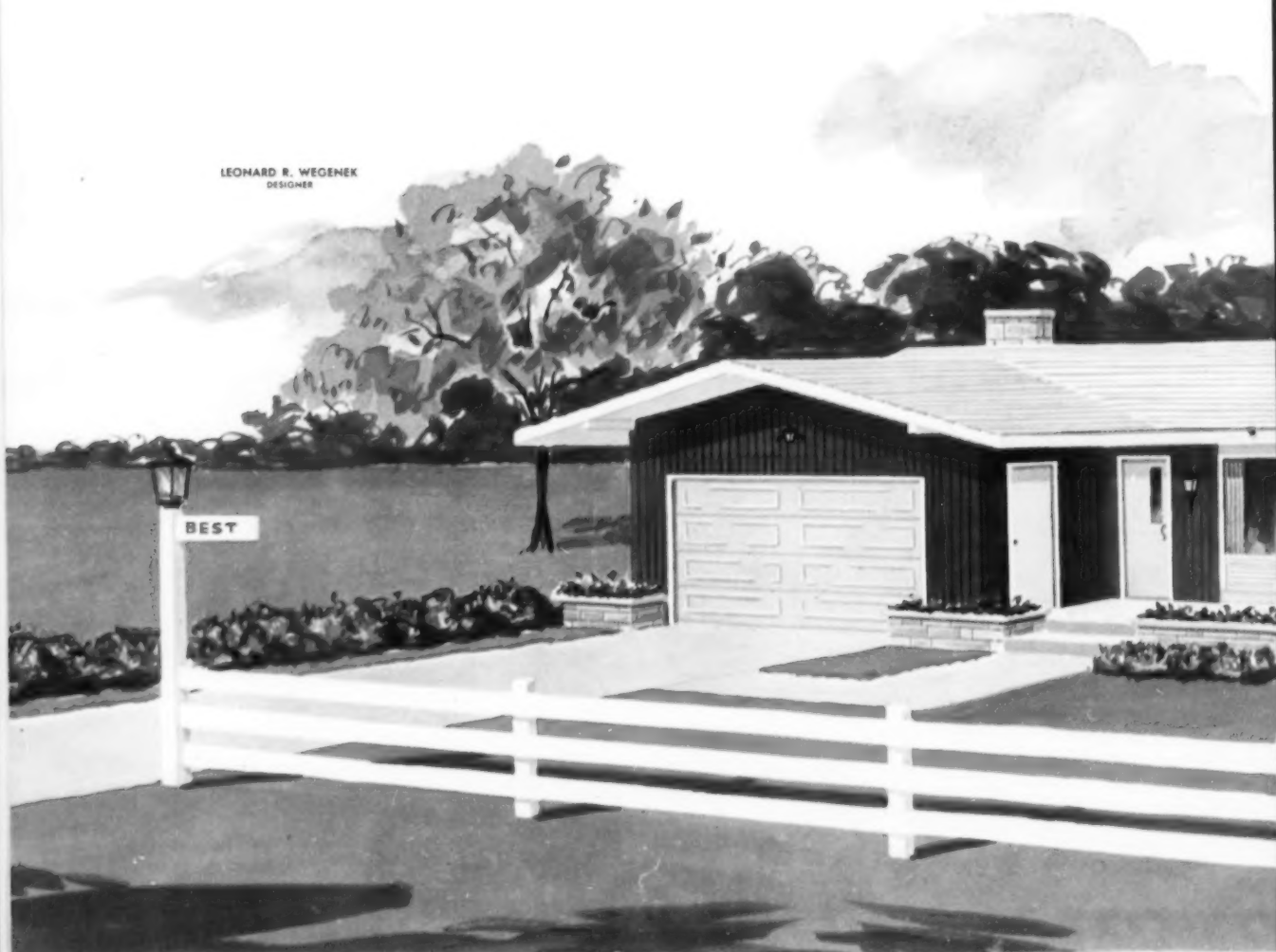
The hundreds of thousands of visitors to the great St. Louis Mid-America Jubilee in September are already back home—talking about the wonders they saw. You can bet they're talking about the BEST MID-AMERICAN! At last they saw a home especially designed for Mid-American living by Mid-American families! The Best MID-AMERICAN can create the same sensation in your area—as your display home for 1957. This home has every feature that has built Best sales... it not only sells itself but with it you can sell any of the Best '57 homes.

Also, Best helps you choose, acquire and plan the land you want to develop... Best helps you arrange financing, interim or long-term... Best helps you advertise, publicize and promote Best Homes as the best buy in your area. This help extends to making out and following up VA and FHA applications... laying out subdivisions... supplying you with hand-out literature, newspaper ads, radio and TV commercials.

Get all the facts on the big Best year ahead! Send a letter or card, or telephone Effingham, Ill. 1600 collect.

W. G. BEST HOMES CO., EFFINGHAM, ILLINOIS

LEONARD R. WEGENEK
DESIGNER

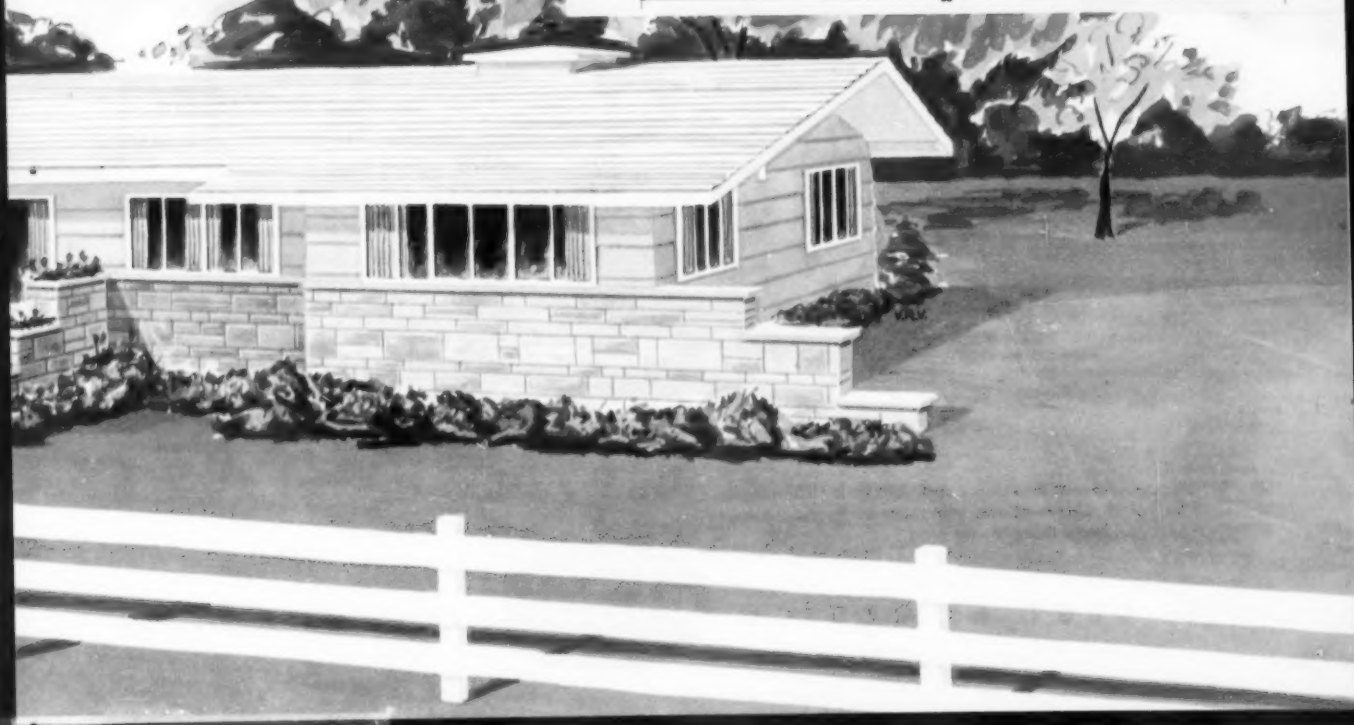
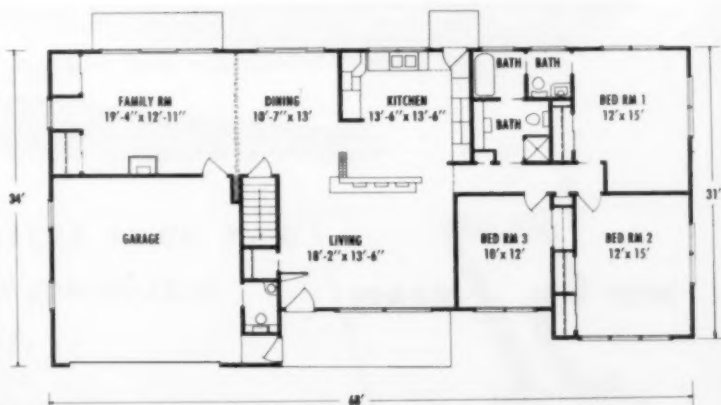


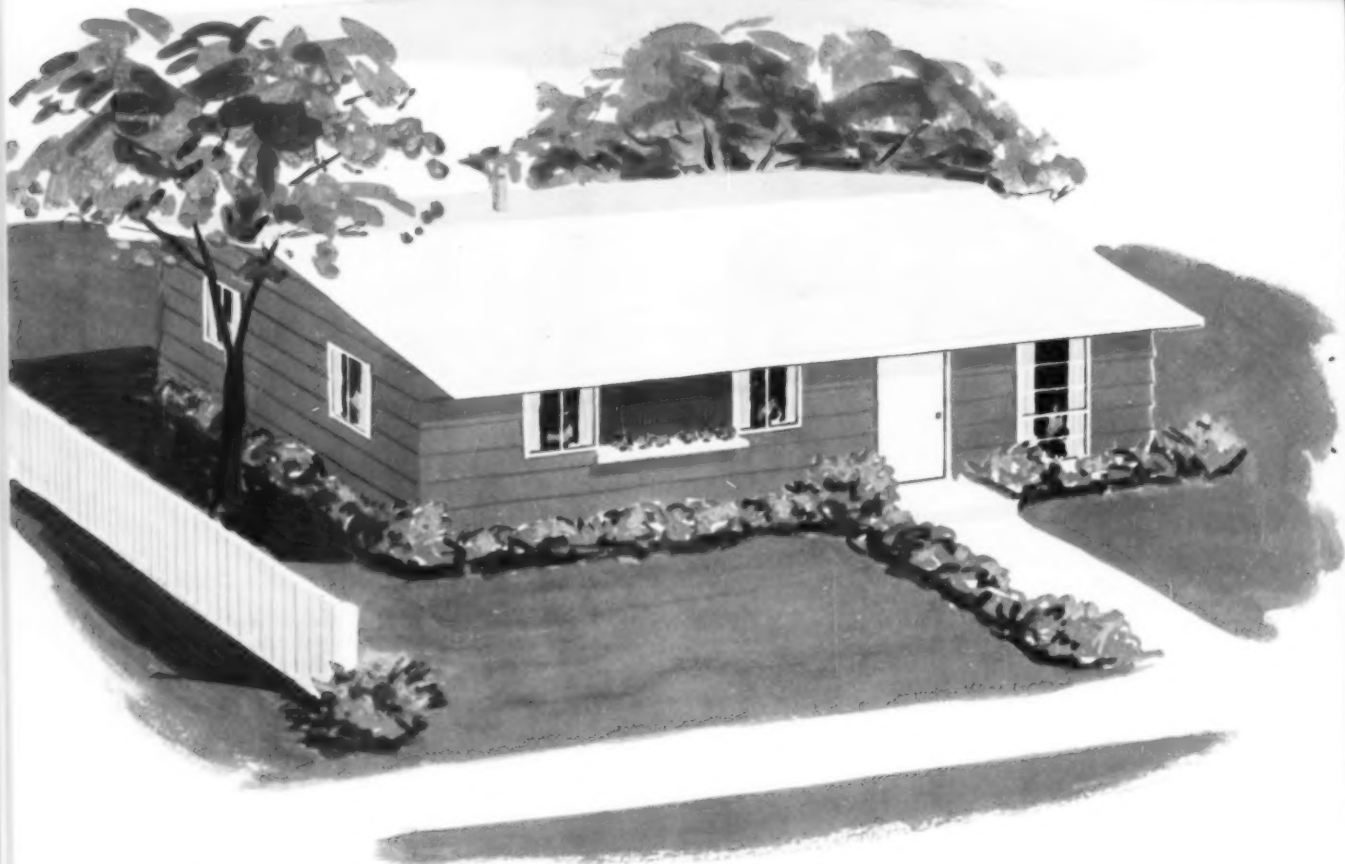


Never underestimate the importance of a woman's kitchen! Best offers whatever she wants—up to completely built-in range, oven, freezer, refrigerator, washer, dryer, dishwasher, sink, cabinets and garbage disposal.



Mid-American families want modern bath facilities. Best Homes offer 1, 1½, 2 or 2½ baths . . . featuring vanity lavatory, glassed-in tiled shower, colored fixtures.





BEST **'57** HOMES

GIVE HOME BUYERS WHAT THEY WANT...
INCLUDING WHAT THEY WANT MOST...
THE PRICE THEY
CAN AFFORD!



Another pleasantly-priced Best Home certain to be a 1957 success is the Model 9601B, shown above, with three bedrooms, storage room, carport and large living-dining area.

While the Best MID-AMERICAN gives families luxuries they've always wanted, other Best models—such as the CLIPPER, above—are available for more cost-conscious customers... and still let you offer modern Best styling, three bedrooms, ample closet and storage space.

A Best dealer service representative is ready to give you details of the entire Best '57 line—including choices of roofs, exteriors and floor plans. Write or phone—at no obligation.

W. G. BEST HOMES CO.



EFFINGHAM, ILL.



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Supermarket



Help yourself to everything you want in new information and literature about new products shown on the pages ahead. This is one-stop shopping for ideas. Instead of writing a dozen different manufacturers, just circle the numbers on the other side of the card below . . . then drop it in the mail (no stamp needed). **AMERICAN BUILDER** will forward your request to each manufacturer, who will send you complete data free of charge. Get your pencil out and help yourself . . .



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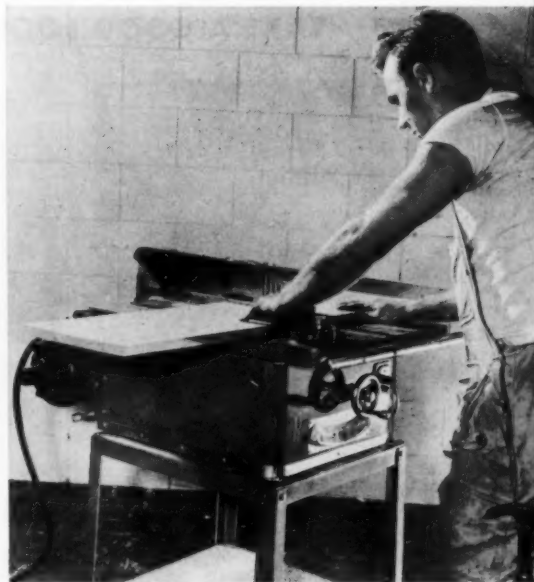
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SERVICE ON THIS CARD EXPIRES IN 90 DAYS — ACT NOW!

... more about tools and equipment. This buying guide begins "up front" on page 116. Complete information on all products illustrated is yours for the asking by using the reply card on facing page.

TILTING ARBOR SAW offers big capacity at low cost according to its makers, Delta. The 10-inch circular saw is designed to provide builders with an economical, large-capacity, portable second saw. The bench model cuts stock up to 3 1/4", weighs slightly over 200 lbs., is operated by a one-horsepower motor. Can also be used with Delta's six-inch long bed jointer. Price: \$149.50 less motor. From Delta Div., Rockwell Manufacturing Co., Attn. G. Sliga, Dept. AB, 400 N. Lexington Ave., Pittsburgh 8, Pa. (Circle No. 10019 on reply card, page 154).



Big job asset: the right new tools



SHAPERS FOR LEFT OR RIGHT now offered by Boice-Crane. Instead of reversing spindle rotation for working with unusual grains of wood, a left-hand shaper as well as a right-handed one is suggested. \$199.50 ea. less motors. Boice-Crane Co., M. H. Buehrer, Dept. AB, 966 W. Central Ave., Toledo 8, Ohio. No. 10020 on page 154).



NEW LOADER on tracks is International's Model 12 Payloader. Front-end loader is a rear-engine mounted 1-3/4 cubic yard model. Capable of loading out a 10 cubic-yard truck in average of 3 min. Price: \$16,500 International Harvester Co., Attn. J. P. Daneluk, Dept. AB, 180 North Michigan Ave., Chicago 1, Ill. (No. 10021 on page 154).

OTHER NEW PRODUCTS IN THIS ISSUE

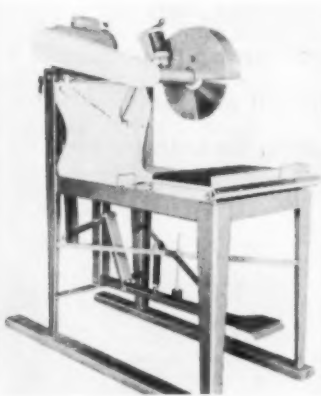
Appliances	p. 185	▶
Building specialties	p. 186	▶
Floors and walls	p. 262	▶
Lighting	p. 158	▶
Windows and doors	p. 194	▶
Winter building	p. 177	▶
Catalogs	p. 270	▶

**STILL MORE AHEAD ON TOOLS,
EQUIPMENT. TURN PAGE ▶**

▼ TAKE A GOOD LOOK AT THESE TOOLS ... THEY CAN SAVE



BAYONET SAW featuring orbital motion is recommended for economical and fast cutting of Formica, plastics, ferrous and non-ferrous metals, woods. Model 148's blade teeth contact material only on the cutting stroke. Lists at \$99.50. Porter-Cable, Attn. M. Nodar, Dept. AB, 1714 N. Salina St., Syracuse 8, N.Y. (No. 10022, page 154).



WET OR DRY cutting with this masonry saw designed for blade capacity up to 14½ in. Can be used on all kinds of masonry and ceramics. Has self-priming pump. Diamond lock and water system. Retail for \$425 net with 1½ hp motor. From Diamond Tool Associates, Attn. J. Martyr, Dept. AB, P.O. Box 85, Hawthorne, Calif. (Circle No. 10023 on page 154).



"FOLDSTIR" MIXER powered by a ½ h.p. electro motor can fit any standard five gallon paint bucket. Can mix 24 lb. bag of joint cement in three min. smoothly and uniformly, eliminating air bubbles. Aluminum blades. Complete: \$119.95. Goldblatt Tool Co., Attn. M. Goldblatt, Dept. AB, 1910 Walnut St., Kansas City, Mo. (No. 10024, page 154).

▼ THE RIGHT "EARTH MOVERS" CAN SOLVE YOUR FOUNDATION



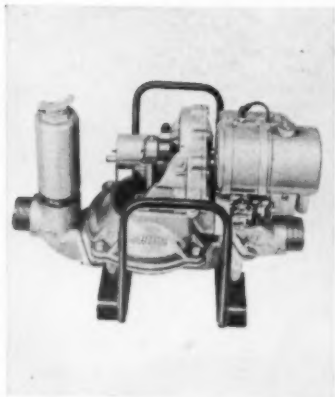
HYDRAULICALLY CONTROLLED BULLDOZER (No. 8U) now offered by Caterpillar for use with its D8 tractor. New bulldozer can be mounted on either torque converter or direct drive D8 tractors. It is operated by a No. 46 Hydraulic Control. Possibility of hydraulic or cable control gives usefulness to bulldozer which provides a rapid and efficient method for earth-moving work. List: \$3,020 without hydraulic unit. From Caterpillar Tractor Co., Attn. Don Peawell, Dept. AB, Peoria, Ill (No. 10025, page 154).



BACKHOE DIGS A DEEP 14 FEET according to its makers, Shawnee Mfg. Co. Model No. D90, the "Chief", actually reaches 15 ft. below the ground, has exceptional push-pull-power by synchronizing action of push cylinder at one end of the bucket boom with another pull cylinder midway between axis and bucket. Boom works in three 120° quadrants. Backhoe price: \$3,100 to 3,300. Shawnee Manufacturing Co., Attn. E. W. Avery, Dept. AB, Topeka, Kans. (Circle No. 10026 on card, page 154).

continued. Use the reply card, page 154

YOU MAN HOURS, GIVE YOU A BETTER JOB



HEAVY PUMPING of mud, muck, sand easily handled by this diaphragm pump, Model 20DP3. With capacity of 5,000 gal. per hr., pump is easy to move, weighs only 120 lbs., will run six hours, full capacity, on one gallon of fuel. \$395 fob Port Chester, N.Y. Homelite Co., Attn. L. Lyman, Dept. AB, P.O. Box 134, Port Chester, N.Y. (No. 10027 on reply card, page 154).



CHAIN SAW featuring contoured-teeth router chain for higher cutting efficiency is Mall's Model GP. Automatic overspeed controller; adjustable diaphragm type carburetor; high torque engine; snap-on roller bearing nose. Price: \$205, for 18" size. Mall Tool Co., Attn. W. Born, Dept. AB, 7725 S. Chicago Ave., Chicago 19, Ill. (No. 10028, page 154).



OSCILLATING SANDER is designed for course, medium or fine sanding. Also finishes, polishes and rubs metal, plastics, wood, composition materials. Model 280 is a $\frac{3}{16}$ " sander with powerful Universal motor giving 3,500 orbit per min. Price: \$24.95 from Portable Electric Tools, Dept. AB, 320 W. 83rd. St., Chicago 20, Ill. (Circle No. 10029 on card, page 154).

OR LANDSCAPE PROBLEMS QUICKLY, ECONOMICALLY

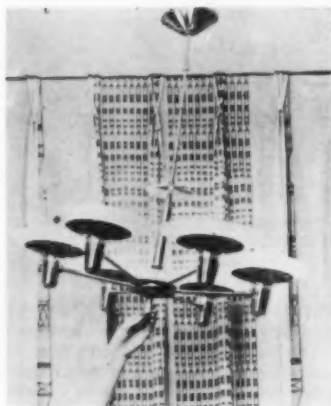


180 DEGREE BOOM SWING is one of the features of the new TerraTrac backhoe. Designed for heavy-duty use with TerraTrac crawler tractors, the 180° swing is done with hydraulic foot pedal control, enabling operator to maneuver bucket and dipper stick while swinging. Unit digs 12½ ft. deep, has 18 ft. reach and 13 ft. dump height. Easily detached when using front-mounted loader or dozer. From American Tractor Corp., Dept. AB, Churubusco (Ft. Wayne) Ind. (Circle No. 10030 on page 154).



HYDRAULICALLY ACTUATED OUTRIGGERS are now built-in to this Hopto digger, Model 190 SPC-55. Operator can control each stabilizer individually for leveling machine on uneven terrain. Model has enclosed type boom and five-inch I.D. cylinders on hoist, crowd and bucket-actuating equipment. Digging depth of 11½ ft. and 190° swing; powered by Continental F226 engine. Badger Machine Co., Attn. Urban Shugart, Dept. AB, 1124 W. Fifth St., Winona, Minn. (Circle No. 10031 on page 154).

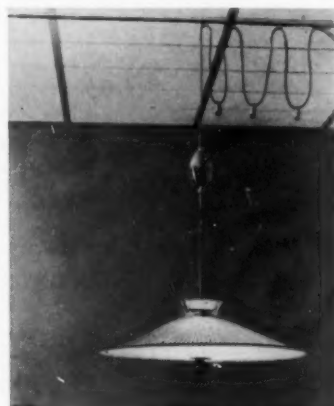
Luxury touch: the right light



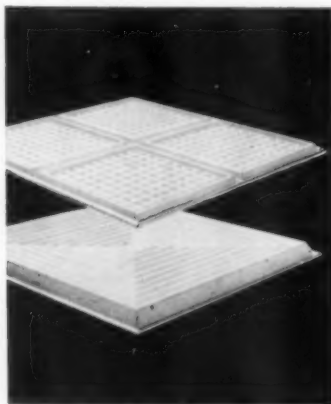
FIXTURE FLEXIBILITY by Globe with "Flex-Stem." Flexible suspension device comes in multiples of four-inch sections easy to add or remove. Stem also conceals wires and suspension chains. Price: \$1.00 for each 4 in. piece. Globe Lighting Products, Attn. G. Goldspinner, Dept. AB, 1710 Flushing Ave., Brooklyn, N.Y. (No. 10032, page 154).



CLUSTER FIXTURE called "Cor-dette Casual" by Moe has three basic fixture units (7" in diameter, 12" in length). Equipped with four ft. cords to permit maximum suspension of 42" from ceiling to bottom of unit. Introductory price: \$29.95. Thomas Industries, Attn. R. Minett, Dept. AB, 410 S. Third St., Louisville, Ky. (No. 10033, page 154).



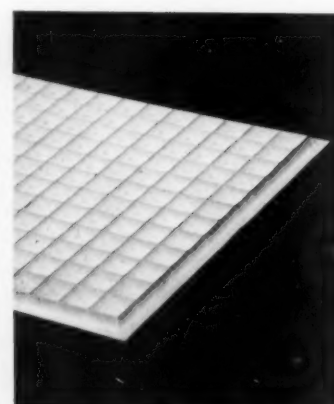
TRAVELLING FIXTURE by Lightolier. Shallow parasol shade fixture called "The Traveller" is suspended by a counter-weighted cord, glides across ceiling on slim brass track as far as 72". Fibreglas shade ribbed with walnut strips. About \$72. From Lightolier Inc., Attn. J. Levine, Dept. AB, 346 Claremont Ave., Jersey City, N.J. (No. 10034 on page 154).



NOISE REDUCTION PANELS of translucent lighting for luminous ceilings are said to give maximum light diffusion and sound dissipation. Perforated isosonic panels combined with non-perforated clear plastic iso-lyte panels. Both of vinyl plastic. From Iso Industries Inc., Dept. AB, 1654 Lincoln Blvd., Santa Monica, Calif. (No. 10035 on page 154).



PLASTIC POST LAMP, weatherproof and rustproof comes in Cape Cod style measuring 18" high and almost a foot square. Lantern of textured black plexiglas, with four glass panels. On standard 3" post. Combination for \$34.95. Engineered Products, Attn. W. Sharbaugh, Dept. AB, 215 S. Taylor Ave., Kirkwood, St. Louis, Mo. (No. 10036, page 154).



LOUVER-DIFFUSER reducing lighting glare, called "CurtiCell." Plastic diffuser has molded cellular louver bottom and flat top diffusing panel. Light passes through four or more thicknesses of plastic. Less than \$1.00 per sq. ft. Curtis Lighting Inc., Dept. AB, 6135 W. 65th St., Chicago 38, Ill. (No. 10037, page 154).

ATLAS MORTAR contributes to the fine modern appearance of Northside Methodist Church, Greenville, S. C. Interior view shows textural beauty achieved by use of concrete-block masonry. Masonry materials furnished by Greenville Concrete Company. Architects: Robert H. Longstreet & Associates. Contractor: Justice-Jones Construction Co., all of Greenville, S. C.



Get better mortar—get better masonry!

A GOOD DESIGN deserves good materials. Atlas Mortar Cement helps assure better mortar because of its consistent high quality and because it has *all* the properties most desired by masons.

BUILDERS RELY on Atlas Mortar's smooth plasticity, its water *retention* and *workability* retention, and its uniform color. The air-entraining properties of Atlas Mortar Cement make joints more resistant to the destructive action of freezing-thawing weather.

BRICK, BLOCK AND STONE all look their best in a setting of Atlas Mortar. So for lasting good looks on

your next project, specify Atlas Mortar Cement. Complies with ASTM and Federal Specifications for masonry cement, which now include requirements for soundness (low expansion) in autoclave.

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Atlas[®] Mortar Cement

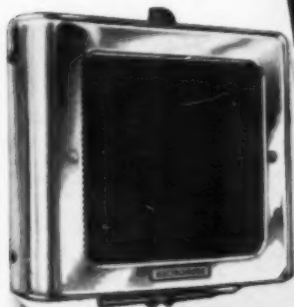
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ONLY Electromode heaters are equipped with a sealed-in, **CAST-ALUMINUM HEATING ELEMENT**. Absolutely no glowing elements or exposed open coils. Tops in safety, efficiency and economy.

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Please send me your **FREE** brochure on the complete Electromode line of electric heaters for homes.

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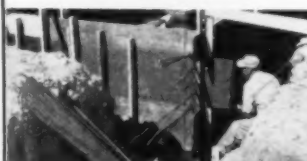
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A high wall forming method that minimizes waler and bracing. Creates lightweight, strong form.

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Eliminates sheathing. Excluding ties, **ONLY** investment is 2" x 8" x 3/4" plywood sheet, rods, hinging hardware.



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One of the most economical methods using Gates 2 x 4 Form Ties. No hardware required.



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Using Gates Rod Type Form Ties for leak-proof forming. Practical for small projects.



**GATES
HORIZONTAL ROD LOW
WALL SYSTEM**

No backing required; no hinges except at corners.



**GATES VERTICAL ROD
LOW WALL SYSTEM**

ONLY hardware used are hinge straps and bolts.



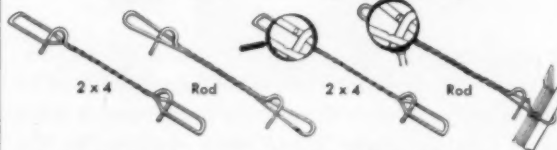
GATES LOW WALL STRAP TIE SYSTEM

For faster, more efficient low wall forming. Gates Strap Tie has built-in spreader, pre-punched nail holes.



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Kenflex vinyl asbestos tile floors help **clinch home sales!**



Kenflex vinyl costs only \$4.80 more per room!

Yes, an average 8'x10' kitchen in KenFlex Standard Gauge (1/16") costs about \$4.80 more than Asphalt Tile (Group C Color)...yet it helps you sell homes faster!

BECAUSE IT'S VINYL, it's moistureproof, grease-proof, easier to clean, long wearing. Colors are clearer, brighter. KenFlex added value helps convince home-buyers and sales are easier to close.

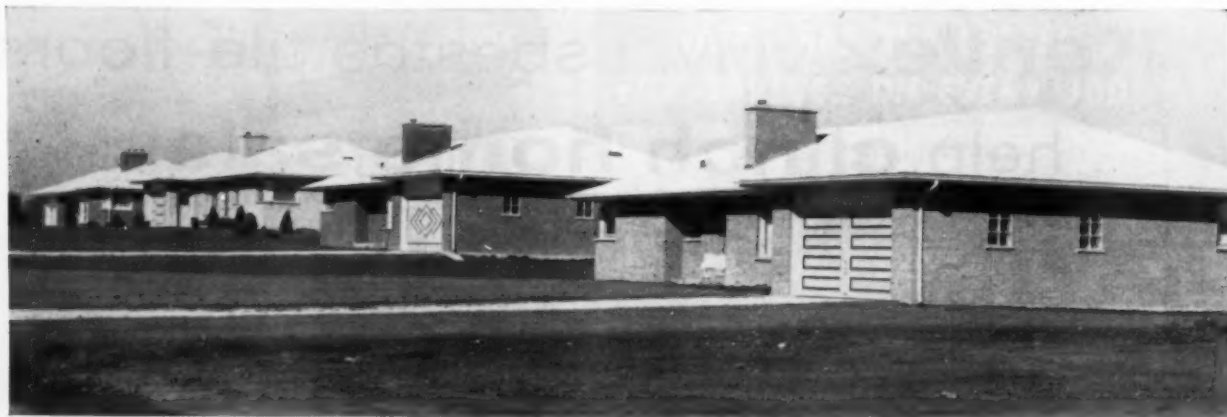
BECAUSE IT'S NATIONALLY ADVERTISED, KenFlex is pre-sold for you! Millions know KenFlex floors from the dramatic full color, full page ads appearing continuously in America's best read magazines.

BECAUSE IT COMES IN 3 WANTED STYLES... Corktone KenFlex, Carnival KenFlex, Marbleized KenFlex...you can feature KenFlex in every type of home, in every room. Ideal for slab-construction developments, perfect for kitchens, playrooms in your finest custom-builts, KenFlex Vinyl Asbestos Tile Floors give you new selling advantages that really pay dividends. Call your Kentile, Inc., Flooring Contractor and learn all the facts about KenFlex NOW!

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VINYL ASBESTOS TILE

*Reg. U.S. Pat. Off.

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Approximately 300 of these homes are heated with B&G Hydro-Flo Systems

Builders: Ehler and Wenborg, Prospect Heights, Illinois • Architect and Engineer: Jack Wenborg, Prospect Heights, Illinois
Heating Contractors: Reliable Heating Company, Park Ridge, Illinois • Plumbing Contractors: Corra Plumbing Company, Des Plaines, Illinois



HEATING

Radiant, draftless warmth, controlled to match the weather, produced at low cost.



COOLING

Separately engineered to more accurately answer the differing problems of heating and cooling.



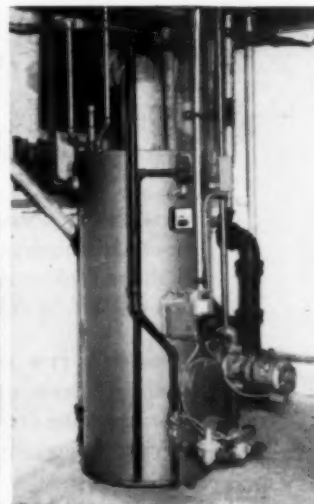
SNOW MELTING

Water in pipes is the only practical method to convey the heat needed to keep sidewalks and drives clear of snow and ice.



Three hundred of these B&G Hydro-Flo heated homes were sold over one week-end.

Owner: The Winston Park Corporation, Oak Park, Illinois • Architects: Erwin Gerber and A. Pancani, Newark, New Jersey
Engineer: Edwin Hancock, Chicago, Illinois • Consulting Engineers: Erwin Gerber and A. Pancani, Newark, New Jersey
Heating Contractor: W. L. Harmony Co., Yonkers, New York • General Contractor: Mucan Inc., Oak Park, Illinois



Saves Space

A typical B&G Hydro-Flo System installation. Built-in domestic water heater eliminates a separately fired unit.

More and more builders are installing **B & G *Hydro-Flo* SYSTEMS**

...because only water offers
the sales appeal of
ALL FIVE!



YEAR 'ROUND HOT WATER

The same boiler that heats the house can be used to heat an ample supply of summer-winter hot water for kitchen, laundry and bath.



ZONING

Easy to divide the piping system into zones for better temperature control and fuel economy.



Builder features hot water radiant heat

This modest home is heated with a B&G Hydro-Flo System, using baseboard panels as the heat distributors. Note the sign—the builder is capitalizing on the strong sales appeal of hot water radiant heat.

Builders have discovered that the B&G *Hydro-Flo* System offers exclusive extra values which turn prospects into buyers. The versatility of water as both a heating and cooling medium—its ability to provide the ultimate in comfort and convenience at low operating cost—its exclusive features and flexibility, offer the builder a proved selling lift.

Money can't buy finer, yet the advantages of the B&G *Hydro-Flo* System are within the cost range of the modest home. This system of circulated water offers not only the best in heating, but an option of such additional benefits as summer cooling and snow melting. These features can be built in originally or added as the owner's budget permits.

The basic *Hydro-Flo* Forced Hot Water System endows a home with radiant, sunny warmth... warm floors... draftless rooms. Automatic modulation of the heat supply keeps indoor temperature constantly at the comfort level—prevents wasteful overheating. Besides all this, a limitless supply of hot faucet water, heated at low cost by the same boiler that heats the house.

For further information, call your local B&G Representative or write to the factory.



The B&G BOOSTER...key unit of the B&G *Hydro-Flo* System

This electric pump circulates water for heating the house in winter, cooling it in summer and for snow melting panels. The B&G Booster has a solid reputation for quiet, dependable and long-lived operation...that's why over 2,000,000 units have been installed to date!

*Reg. U. S. Pat. Off.



BELL & GOSSETT

C O M P A N Y

Dept. EN 11, Morton Grove, Illinois

Canadian Licensee: S. A. Armstrong, Ltd., 1400 O'Connor Drive, W. Toronto, Canada

THERE'S GOLD IN THEM THAR YELLOW PAGES...

FOR BUILDERS.

Advertising in the Yellow Pages of telephone directories has panned out for hundreds of successful builders across the country.

That's because the "Look-in-the Yellow Pages" habit sends nine out of ten people to their telephone directories. And that habit is continually encouraged by advertising in magazines, newspapers and on television.

Make sure you are represented in the Yellow Pages under CONCRETE CONTRACTORS, GARAGE BUILDERS and other profitable headings. Remember, the more you tell, the more you sell.

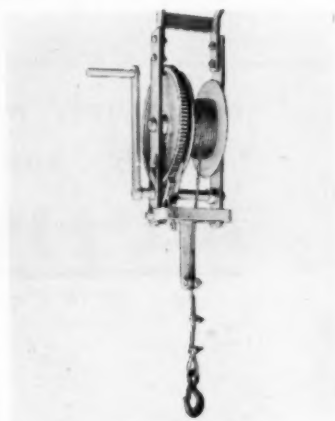


Find out more about this effective sales tool. Get in touch with the Classified Directory Representative at your local telephone business office.

**American
Builder**

New products

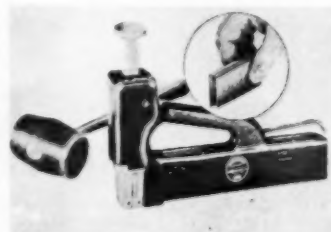
TOOLS & EQUIPMENT



New scaffold winch has safety roller guide

New all-metal safety winch complete with stirrup is marketed by Bil-Jax. Available in two sizes: with single line capacities of 500 and 1,000 lbs., the winch has a roller guide on top which prevents wear on the steel cable. Stirrup accommodates all metal swing stages up to width of 30". Heavy duty type furnished with 100 ft. of $\frac{3}{4}$ " cable; medium duty type with 75 ft. of $\frac{3}{16}$ " cable. Bil-Jax Inc. Attn. W. M. Wyse, Dept. AB, Box 38, Archibold, Ohio.

Circle No. 10038 on reply card, p. 154

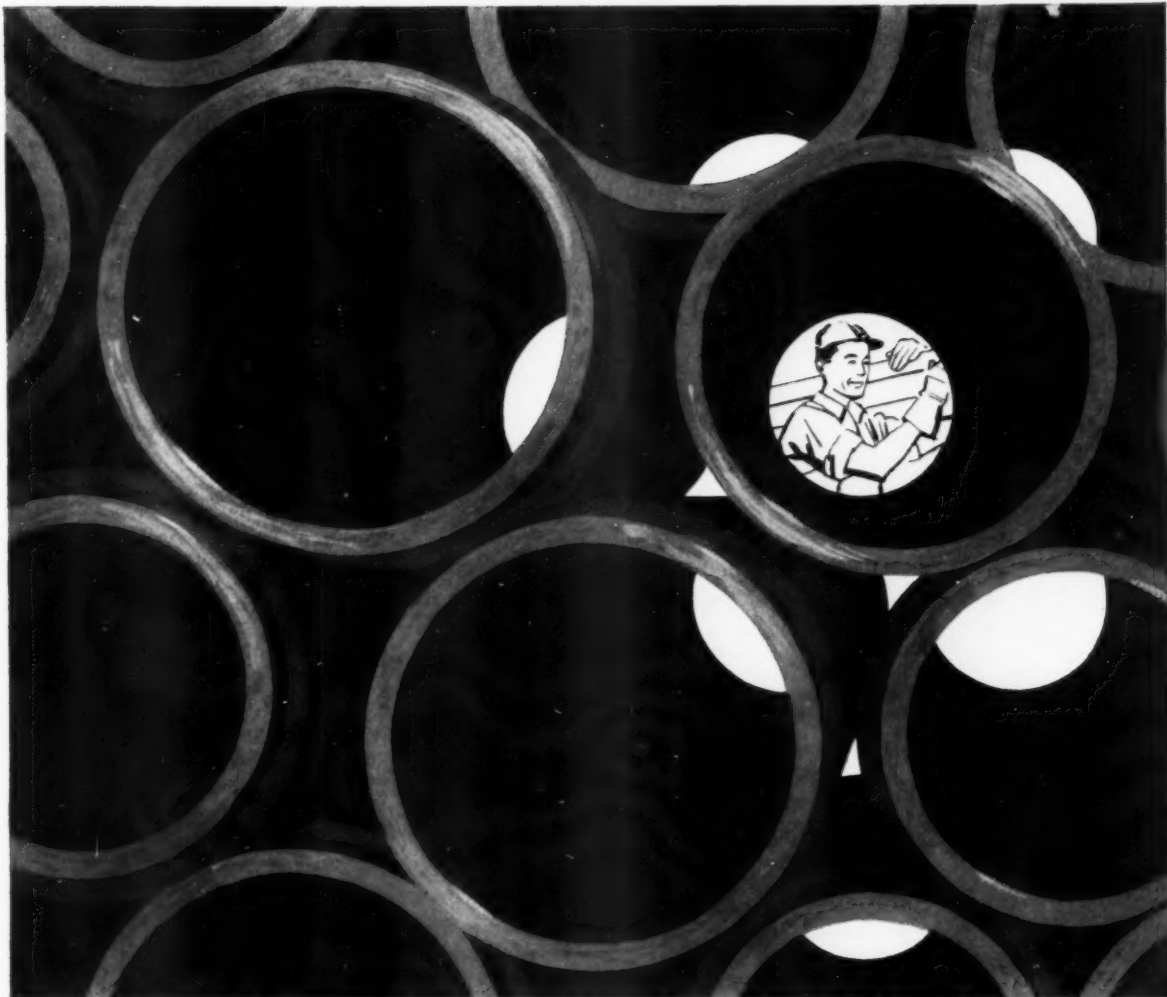


Plastic nailing machine does heavy duty work

Plastic, heavy duty nailing machine capable of driving $1\frac{1}{2}$ in., 16 gauge staples into hardest woods is now on the market. Model B Spotnailer is lightweight, magazine-fed machine designed for longer, heavier fastening such as roofing and sidewall sheathing, roof trusses, hardwood panelling, etc. Write for complete information from Spotnails Inc., Dept. AB, 1527 Lyons St., Evanston, Ill.

Circle No. 10039 on reply card, p. 154

AMERICAN BUILDER



For top profits and top turnover

you can't top BERMICO®

Thousands of building materials wholesalers, dealers and builders themselves have discovered that Bermico boosts profits because it:

- **Comes in 8-foot lengths**
- **Is light in weight— $\frac{2}{3}$ less**
- **Is easy handling on truck or job**
- **Is root-proof and corrosion-proof**

Truly the modern pipe for modern living, Bermico Pipe for house-to-sewer or septic tank, and Bermiseptic Perforated Pipe for septic tank disposal and drainage sys-

tems, are strong, impact-resistant, and stand up under temperature changes and soil settlement.


Made of tough cellulose fibre impregnated with pitch, Bermico Pipe comes in all sizes from 2" to 6" diameter. And only Bermico has a line of matching Tees, Wyes and Bends of the same material.

If you're looking for bigger profits, faster turnover, look into Bermico. It's widely advertised in national magazines. It's widely preferred by quality-minded home owners. For more information on modern, profitable Bermico and

Bermiseptic, write Dept. HB-10, Brown Company, 150 Causeway Street, Boston 14, Mass. (Mills: Berlin, Gorham, North Stratford, N.H.; Corvallis, Ore.)



**\$1
PREVENTS
THIS**



Hard to believe, but true! For all the siding on this home, stain-resistant Maze Stormguard nails would have cost only about \$1.00 more than ordinary tumbler process galvanized nails. A trifling amount to insure lasting nail satisfaction.

Rightfully upset, the owner of this new home will want to know why his expensive house is marred by ugly nail streaks. He will call his contractor and dealer for an explanation — to find that his troubles are caused by their careless selection of nails. The result is not only damage to the siding, but also to the reputations of the contractor and supplier.

Ordinary nails, which can start an endless chain of costly repair and maintenance problems, are as old-fashioned as the Model T Ford. Maze Stormguards are the *modern*, rust-resistant fastener for all exterior applications. Here's why:

RUST RESISTANT — In a zinc coated nail, FHA requires "hot-dipped" — Stormguard nails are hot dipped *twice* in molten zinc to make them rust resistant. They require no counter-sinking or puttying.

DRIVE WELL. HOLD TIGHT — Sturdy steel core drives well without undue bending or breaking and reduces wastage; specially threaded shanks hold anchor-tight.


ECONOMICAL — Maze Stormguards cost $\frac{1}{3}$ less than non-ferrous nails — only slightly more than ordinary galvanized nails.

PACKAGED — To provide for easy handling on any type job, Stormguards are clearly labeled and packed in both 5-lb and 50-lb cartons.

Ask for them by name — Maze Stormguards in the distinctive striped cartons.

WRITE FOR FREE HANDBOOK

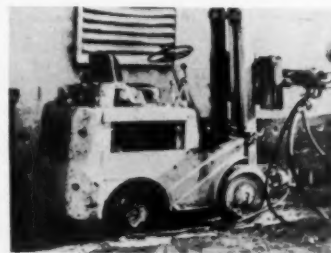
Tells you how and where to use these new rust-resistant fasteners. Request free nail samples, too, in desired types and sizes.



Also a complete line of other Maze nails for: flooring, underlayment, plywood, gypsum wall-board, metal roofing, pallets, etc.

W. H. MAZE COMPANY
PERU 3, ILLINOIS

TOOLS & EQUIPMENT



**Fork truck can serve
as mount for drill**

The Clark 1,000-pound fork truck is described by its makers as capable of many different tasks. To illustrate, the fork truck shown above was used as a solid but mobile support for a pneumatic drill. In a job involving the moving of a 4,000 ton building, the Clark fork truck gave fast elevation for drilling grid holes and easy moving of rig along foundation lines. Information from Clark Equipment Co., Attn. Glenn Christians, Dept. AB, Industrial Truck Div., Battle Creek, Mich.

Circle No. 10040 on reply card, p. 154



**Gun tackers take tough use
without losing power**

Arrow Fastener is now offering a gun tacker kit T-50 which includes its improved gun tacker. Heavy-duty valve wire used in car manufacture has been added to the tacker to insure spring mechanism in the machine. Wire also gives better penetration and holding power for staples. New carbon steel spring for staple pusher lock mechanism insures a firm lock hold. Improvements said to enable tacker to take tough use. Kit: \$15.50. Arrow Fastener Co., Attn. M. Abrams, Dept. AB, 1 Junius St., Brooklyn, N. Y.

Circle No. 10041 on reply card, p. 154

HOW TO CUT COSTS

AND PLEASE MORE PEOPLE!

New! Easy to Install

Admiral

Built-In ELECTRIC RANGE

Super Speed Surface
Units in Stainless Steel
or Colored Porcelain.
Oven Door Panels in
Colored Porcelain or
Brushed Chrome.



INSTALL

Admiral Appliances

ON YOUR NEXT JOB

With Admiral appliances you get more for your money. Which means you cut your costs, yet offer *more* to customers. You profit

all around—in money, in friends, in boosters. But don't take our word for Admiral value—write for Admiral prices and deals today.

MATCHING

Admiral

REFRIGERATORS
AND FREEZERS

New, Compact Space-Saving Design. Choice of Colors. Every Big Convenience Feature.



Get **Admiral**
Cost Cutting Details
MAIL COUPON TODAY...

Admiral Corporation • 3800 W. Cortland St. • Chicago 47, Ill.
Please send me complete information on Admiral ☐ Built-ins
☐ Refrigerators ☐ Freezers ☐ Electric Ranges
☐ Air Conditioners and Dehumidifiers

Name _____ Title _____

Firm Name _____

Address _____

City _____ Zone _____ State _____

No. of Units Planned _____

Your Owner Deserves the Strongest SHEATHING!

**Give him Maximum
Strength, plus
high insulation
factors with...**

ARKANSAS SOFT PINE *Certified* SHEATHING



Arkansas Soft Pine sheathing supplies superior material for three vitally important structural locations: (1) subfloors, (2) wall sheathing, (3) roof decking.

In all three, Arkansas Soft Pine sheathing, dry and correctly seasoned, with its great nail-holding power, provides maximum tensile strength and stiffness to the structure. It is tongue-and-groove material nailed on diagonally for *extra bracing*, and encloses the entire frame with a completely integrated "skin". It is *vastly stronger than synthetic, blotter-like composition board sheathing*. It insulates effectively, being immune to heat, cold and dampness. *Seasoned to specified moisture content in automatically controlled dry kilns*, Arkansas Soft Pine sheathing of standard thickness keeps out as much heat or cold as 5" of common brick, 9" of face brick, 12" of stone, and 13½" of concrete.

As subflooring, it is free from shrinking or swelling, provides a stabilized base over which the finish floor stays uniformly smooth. By the same token, it stays put as roof decking under all types of outside covering.

Certified by official SPIB grade-mark, as required for FHA and VA financing, and identified by registered trade-mark, Arkansas Soft Pine sheathing supplies every home builder the ultimate in enduring value.

Arkansas Soft Pine Certified sheathing comes in 4", 6" and 8" widths, center-and-end matched, or plain end. It is sold by local lumber dealers east of the Rockies. For data, illustrated grades and specifications, send for **FREE Handbook**.

FREE



ARKANSAS SOFT PINE BUREAU

955 BOYLE BUILDING, LITTLE ROCK, ARKANSAS

**American
Builder**

New products

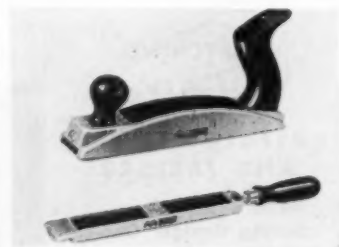
TOOLS & EQUIPMENT



Hand-powered stud driver easy to operate

Robot, a new hand-powered stud and nail driver, is described as a safe and economical tool for driving studs into cement, brick or soft iron. No cartridge or spring parts in tool, just a cylinder or housing with base seating plate, two jaws and two springs. Uses three interchangeable driving pins for ¼" studs, ⅜" studs and nails. Excellent holding power in all materials. Scientifically designed tool for building contractors, roofers, electricians, maintenance, plumbers and many other building uses. Robot, complete with two driving pins: \$18.75. Information from John K. Gieling, Dept. AB, 300 Fourth Ave., New York 10, N. Y.

Circle No. 10042 on reply card, p. 154



Finishing tool works on all types of wood surfaces

Surform is a newly-developed tool for forming and finishing all types of wood surfaces. Said to work ten times faster than rasps or files on wood. Surform has Sheffield steel cutting unit with more than 450 separate blades. Each cutting edge has 35° angle and semi-circular throat through which chips pass. Available in two models: one used like hand plane, the other like a rasp. Priced at \$3.69 and \$2.69 respectively. From Stanley Tools, Attn. F. Benfield, Dept. AB, 111 Elm St., New Britain, Conn.

Circle No. 10043 on reply card, p. 154

AMERICAN BUILDER

Authorities say:

"The BEST insulation is the MOST insulation!"

*—and Johns Manville **SPINTEX**[®] meets their 6-4-2 specification*!*



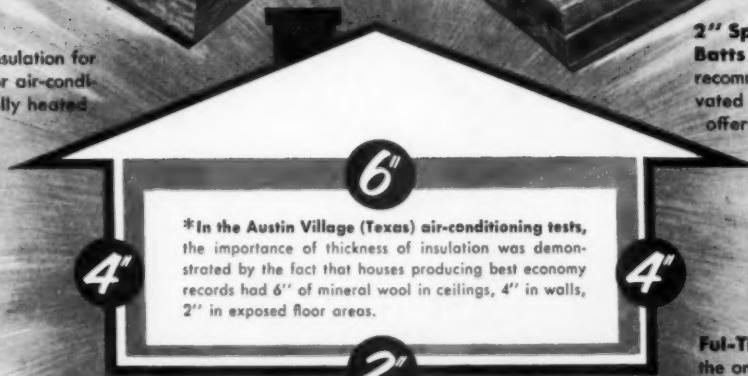
6"

New 6" Thick Spintex Batts provide maximum insulation for ceilings. A "must" for air-conditioned and electrically heated houses.



2"

2" Spintex Batts or Blankets recommended over unexcavated crawl spaces. J-M also offers blankets in other thicknesses.



6"

*In the Austin Village (Texas) air-conditioning tests, the importance of thickness of insulation was demonstrated by the fact that houses producing best economy records had 6" of mineral wool in ceilings, 4" in walls, 2" in exposed floor areas.

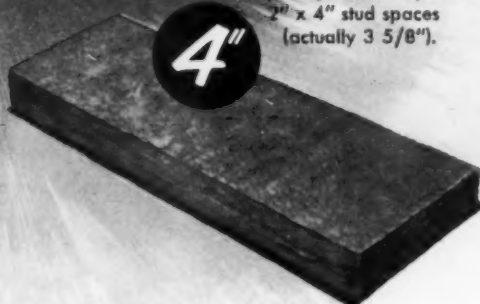
4"

4"

2"

PLUS

Aluminum-wrapped Spintex Blankets provide "plus" summer benefits. Available in 3" and 2" thicknesses.



4"

Full-Thick Spintex Batts the only batts which completely fill the depth of 2" x 4" stud spaces (actually 3 5/8").

New, improved Johns-Manville Spintex is the only type of home insulation that effectively stops heat all three ways—by conduction, convection and radiation!

Learn how you can cash in on this important new development in home insulation! Write Johns-Manville, Box 111, New York 16, N. Y.



Johns-Manville

NOW...A REALLY ADVANCED LOW-COST LOCK!
WITH GLAMOROUS NEW STYLING



*the all-new
beautiful MAYFAIR design—
richly custom-styled
with one-piece seamless knob*

GUARANTEED STRONGER, SMOOTHER ACTION
... **THE IMPROVED** **CORBIN** *Guardian*



New CORONA
Trim —
7 1/4 x 3 1/4"
Cast Brass,
Bronze, or
Aluminum



New POLARIS Trim
— 10 x 7 1/2"
Cast Brass, Bronze,
or Aluminum

New RANCHO Trim
— 5 1/2 x 5 1/2"
(can also be used
on the square)
Wrought Brass,
Bronze, or Aluminum



New Auxiliary
Handle for use with
GUARDIAN
Exterior Door Set



Standard
GUARDIAN Design

New Round 3 1/2"
Auxiliary Rose —
Wrought Brass,
Bronze, or Aluminum



New Round 5 1/2"
Auxiliary Roses —
Wrought Brass,
Bronze, or Aluminum
(three different
designs)



New Fully-Guided
Locking Slide for
Bath-Bedroom
Function — assures
easier action,
maximum strength.

New "Steel-Grip"
Turn Piece — even
resists plier
twist test!

New "U-Yoke"
Latch Bolt Retractor
— provides smooth,
positive action,
maximum stability.

New large,
Flat-Headed Screws
— speed up
installation.

New Larger 2 1/2"
Roses — give extra
coverage around
lock case hole.

New Foolproof
Knob-Mounting
Feature — knob
cannot be put on
wrong.

New Inside Rose
Plate — puts more
metal in contact with
wood — maintains
snug fit.

... and, of course, no die-cast parts

Here's the low-cost residential lock that's years ahead — both in styling and performance! The improved *Guardian* now offers a choice of 2 handsome lockset designs, 7 sparkling new rose designs, a smart new auxiliary handle — *plus* design improvements in practically every detail of operation. The improved *Guardian* is 4 times stronger — actually outlasts higher-priced locks in breakdown tests! Put this beauty on display. Let your customers get the feel of its smooth, solid action. It's available in the 5 most-wanted functions—today's leading low-cost lock.

P & F CORBIN Division

The American Hardware Corporation
New Britain, Connecticut



Reduce costs with Crezon plywood siding...here's how!



You save money all along the line when you use Crezon plywood siding.

SAVE ON MATERIAL. You need fewer square feet per job and there's practically no trim loss. Crezon siding has a waste factor from trim loss of only 1% compared with the accepted waste figure of 20%. And, FHA accepts Crezon siding with or without sheathing depending on local conditions.

SAVE ON LABOR. You run fewer courses with Crezon because it's wider — 12", 16" and 24". (Most wood siding comes in 8" or 10" widths). Crezon also butts precisely, nails easily without drilling . . . requires fewer man-hours.

Crezon siding is available through these leading plywood manufacturers and their distributors. Write for further information.

Georgia Pacific Plywood Co.
600 N. Capital Way
Olympia, Washington
Edward Hines Lumber Co.
77 West Washington Street
Chicago 2, Illinois
Milwaukie Plywood and
Door Inc.
815 - 31st
Milwaukie, Oregon
Mount Baker Plywood Inc.
2929 Roeder Avenue
Bellingham, Washington
Roseburg Lumber Company
P. O. Box 1091
Roseburg, Oregon
St. Paul and Tacoma
Lumber Company
Tacoma, Washington
United States Plywood Corp.
55 West 44th Street
New York 36, New York
Walton Plywood Company
P. O. Box 1120
Everett, Washington

SAVE ON PAINTING. The "perma-paintable" Crezon surface has a special affinity for paint that saves paint and painting time. Two coats do the job of three. Crezon siding holds paint years longer than non-overlaid wood. And Crezon can't check or blister.

Try Crezon on your next home or commercial construction job and see for yourself.



CREZON PLYWOOD AVAILABLE IN PANEL SIDING, TOO. Available in all standard thicknesses and widths. Needs no special tools or construction techniques.



CREZON IDEAL FOR WEATHERPROOF GABLE ENDS, SOFFITS. U. S. Steel Homes use Crezon plywood for low-cost, weather-proof protection.

The permanent protective overlay for plywood.



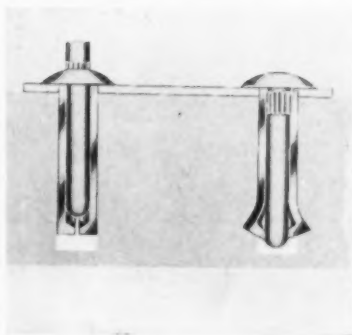
© CZ-331-A

A PRODUCT OF CROWN ZELLERBACH • San Francisco 19, California

**American
Builder**

New products

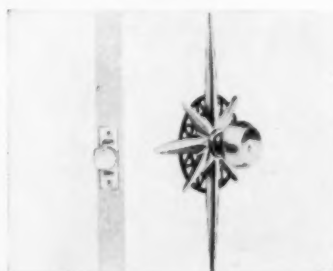
TOOLS & EQUIPMENT



Pin-grip masonry anchors speed fastening time

For faster, more convenient fastening, Star Expansion suggests the Pin-Grip, a one-piece masonry anchor. By driving pin protruding from head flush with the head, a permanent, tight fastening job results. Pin-grip is inserted into masonry hole, then stainless steel pin driven in, nested in bored aluminum body of Pin-Grip, it forces out expanding prongs which grip wall within the masonry hole. Wide range of sizes available. Star Expansion, Dept. AB, 142 Liberty St., New York 6, N. Y.

Circle No. 10044 on reply card, p. 154

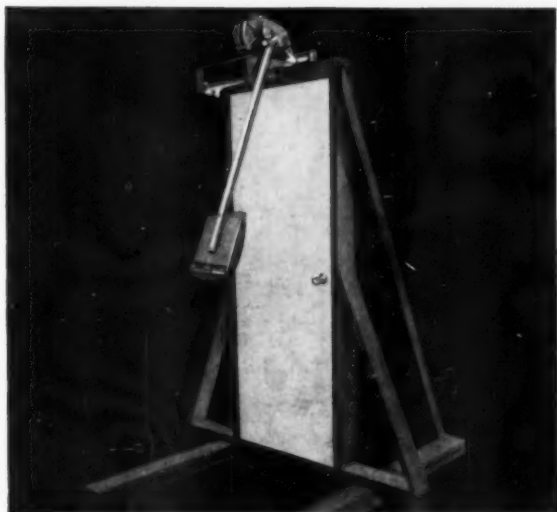


Lock assembly permits many different designs

The new cross-bore "SentryLock" is engineered to provide a wide variety of custom designs for the builder. The lock's basic components—knobs, roses, latches and aligning tubes—can be separately stocked and assembled to meet individual requirements. About 75 set designs. Prices from \$4.80 to \$19.40 depending upon design. From Sargent & Co., Attn. Samuel Wilder, Dept. AB, New Haven, Conn.

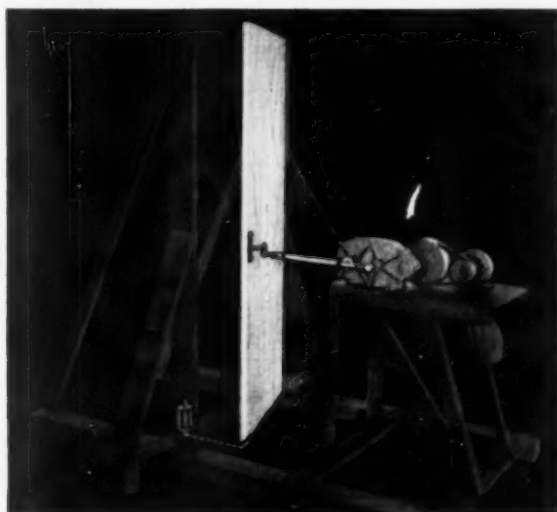
Circle No. 10045 on reply card, p. 154

ENDURANCE...*proved by torture*



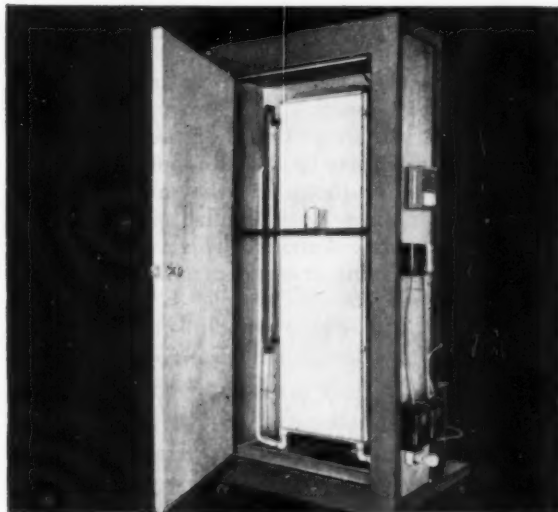
Proved by 529,879 bangs

This pendulum banged a 35-pound weight against a Curtis New Londoner hollow-core door 38 times per minute. After 529,879 bangs, door was good as new.



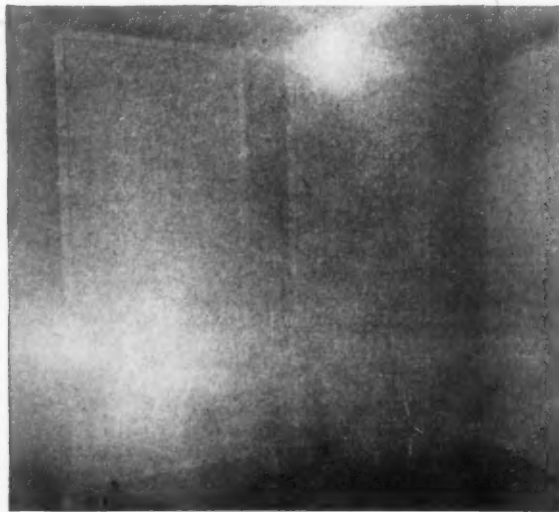
Proved by 642,934 slams

Slammed 72 times per minute—the equivalent of a lifetime of slamming—the Curtis New Londoner door came through this tough test unscarred—unmarred.



Proved in chamber of horrors

Subjected to 166 cycles of temperatures ranging from 110° to 0° F., a Curtis New Londoner door showed no peeling of face panels or changes in dimensional stability.



Proved in pea soup fog

After undergoing more than 3 months of humidity changes from highs of 90%-95% to lows of 20%-30%, the New Londoner doors were still flat and aligned.

Sold by leading
lumber and
Curtis Woodwork
dealers.



CURTIS

WOODWORK *heart of the home*

Complete data yours on request!

Curtis Companies Service Bureau AB-10-56
200 Curtis Building, Clinton, Iowa
Please send information on Curtis New Londoner
Doors.

Name.....

Address.....

City.....State.....



alike as peas in a pod...

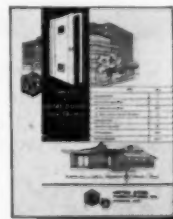
HANG 1000 USF METAL DOORS AND FRAMES
they're all alike!



USF Metal Doors and Frames are engineered to the most exacting standards in the industry and are produced on precision tools and fixtures to absolute uniformity. Hang one or a thousand—they all go in the same easy way. You benefit from production-line economies *plus* a profitable saving in costly manhours on your job site.

*fit each other
fit modern building materials
fit finest surroundings*

write: for complete
bulletin of
details, sizes
and fire ratings.



UNITED STEEL FABRICATORS, INC.
WOOSTER, OHIO

AMERICA'S FIRST MANUFACTURERS OF STANDARDIZED METAL DOORS AND FRAMES

**This Snow-Removal Team
Doesn't Wait for Winter!**



FORD TRACTOR-LOADER works every day of the year

With a Ford Tractor and new "Step-On" Loader, you have equipment that can handle many kinds of work, all year around. It's an excellent unit for fast, efficient removal of snow. It is also excellent for maintaining roads and streets, parks and roadsides.

The advanced design of the new Ford "Step-On" Loader allows fast, easy loading, lifting and dumping. Ford Tractors give

you greater ease of handling . . . extra power for jobs like loading, dozing and sweeping. They can be equipped to handle a wide range of other jobs, too.

For an investment that will keep paying dividends every day in the year, invest in a Ford Tractor and "Step-On" Loader. See your Ford Tractor and Equipment Dealer right away!



CLEAR LARGE AREAS QUICKLY—Ford Tractor with blade provides ample power to handle heaviest snowfalls. Attach broom to sweep streets and parking areas as the snow falls.



LOAD A YARD A MINUTE—Ford's new "Step-On" Loader provides capacity for a wide range of jobs. Compare it with any loader in its class for ease of handling and safety.

TRACTOR AND IMPLEMENT
DIVISION
FORD MOTOR COMPANY
BIRMINGHAM, MICHIGAN



For Hardwood Floors of Traditional Beauty *At Their Best*



One reason 85 per cent of all home owners prefer oak floors, is oak's unique adaptability to favored decorative schemes. This versatility is strikingly evident in modern motifs which employ liberal expanses of bare floors set off by accent rugs.

For these exposed surfaces, Royal Oak Flooring provides the paramount essential... original fine texture, retained and protected by skillful seasoning that assures complete affinity for penetrating finishes so important in bringing out the full beauty, flower and dignity of oak.

With these qualities matched by refinements in design and manufacture that assure mirror smoothness, Royal Oak Flooring affords you dependable, premium quality for every specification.

Endorsed by Crossett's registered Trade-Mark and clearly labeled for grade, Royal Oak Flooring supplies you with the best for the best. For further information, address:

Constant betterment through research.

CROSSETT LUMBER COMPANY

A Division of The Crossett Company

CROSSETT, ARKANSAS

ROYAL OAK CROSSETT ARK. A DIVISION OF THE CROSSETT COMPANY

for the
final touch
in the
finer
homes
you
build
SPECIFY
the . . .



Thermo-Rite FIREPLACE ENCLOSURE with HEAT TEMPERED GLASS DOORS

- Blends with traditional or contemporary decor. Adds fire-side charm and beauty.
- Radiates your fireplace heat like a common light bulb, but on a much larger scale. (Burns wood, coal or gas.)
- No sparks. No smoke
- No floor drafts
- Perfect safety
- Complete control of fire
- Cleanliness
- Lowers fuel bills

THERMO-RITE MFG. CO., Dept. AB-1056 Akron 9, Ohio
CANADIAN PLANT — 134 HARTZEL ST., ST. CATHARINES, ONT.

THIMBLE MAGIC...



A New Kind of Louver

... the *Midget Thimble* lets air into places no other louver can reach, protects paint, wood and metal from excess heat and moisture.

Thimble Louvers are always used with regular Midget Louvers, feature same easy push-in installation, hold securely without nails or screws. Perforated design is insectproof, won't clog when painted.

Midget Louver's standard line now offers chrome, anodized, copper, and aluminum in 1, 1½, 2, 2½, 3, 4, and 6 inch sizes. All Midget Louvers are recommended by the American Paint and Varnish Association. Write for full information on humidity control—

MIDGET LOUVER COMPANY

6 WALL STREET • NORWALK, CONNECTICUT.

TOOLS & EQUIPMENT

Flushing gun cleans all plumbing up to 100 feet

An all-purpose flushing gun combining water impact and air pressure is offered now by the Miller Sewer Rod Co. The gun, which cleans all lines up to 100 ft., is easy to operate and will clean clogged water closets, sinks and floor drains of paper, grease, rags, sand and other debris. May be used on any 1/2" to six-inch waste pipe. Only one or two shots from gun necessary to melt obstacles away. Offered on 30-day free trial basis. Information from Miller Sewer Rod Company, Dept. AB, 4642 N. Central Ave., Chicago 30, Ill.

Circle No. 10046 on reply card, p. 154

More on tools and equipment . . . see page 116

WINTER BUILDING



Compound melts ice and snow for workmen

Melt, an ice and snow melting compound that can be easily handled and spread without danger of caking or solidifying within its container, is now being marketed by Chem Industrial. Reported to have ten times greater thawing capacity than flake calcium chloride, Melt is particularly active at low temperatures, dissolves ice and snow without leaving a residue or harming asphalt or concrete. Prices: \$3.75 for 25 lb. pail; \$11.50 for 100 lb. drum. From Chem Industrial Co., Attn. Edward White, Dept. AB, 3784 Ridge Rd., Brooklyn 9, Ohio.

Circle No. 10047 on reply card, p. 154

STANLEY Electric Tools



**4 heavy duty builders saws
6" to 8" . . . \$59⁹⁵ to \$79⁹⁵**

Every one of these fine heavy duty saws has ball bearings throughout, the new "Free-Start" Guard for maximum blade coverage and the exclusive "Motor-Saver" Drive that protects the Stanley-made motor against shock of impact against foreign objects like nails.

Perfect performance at fair prices

6"	H65 cuts 2"	at 90°, 1 1/2" at 45°	only \$59.95
6 1/2"	H68 cuts 2 3/16"	at 90°, 1 5/8" at 45°	only \$64.95
7"	H70 cuts 2 3/8"	at 90°, 1 3/4" at 45°	only \$69.95
8"	H85 cuts 2 7/8"	at 90°, 2 1/8" at 45°	only \$79.95

And a kit for every saw

Kits include saw, extra blade, ripping gauge, lubricant and wrenches in sturdy metal carrying case with special compartment for storing accessories.

H665 with 6"	H65	only \$75.95
H668 with 6 1/2"	H68	only \$80.95
H770 with 7"	H70	only \$85.95
H885 with 8"	H85	only \$97.50

See Stanley builders saws and other models at the Stanley Electric Tool distributor near you. For complete power tool Catalog No. 56, write Stanley Electric Tools, 100 Myrtle Street, New Britain, Connecticut.

STANLEY

Greatest new tool in years for
maintenance and production

a high quality, low cost
REVERSIBLE
SPEED REDUCER

Fits all portable drills ...
reduces speed, increases
torque seven times. Ask
your distributors to show
you the ...

Supreme **Versamatic®**

PROFESSIONAL MODEL
No. 4000-P with Yankee-Type
Bit Holder



COMPLETE 14-PIECE SET... ONLY **\$24.95**

Engineered and manufactured
by the makers of

Supreme Chucks
BRAND

The line that's UP FRONT on
America's leading power tools

SUPREME PRODUCTS CORPORATION, 2222 S. CALUMET, CHICAGO, ILLINOIS



DRIVES SCREWS



REMOVES SCREWS



RUNS NUTS, BOLTS



ON OR OFF



SPEED REDUCTION



FOR DRILLING



DRIVES TAPS



REVERSE...
removes taps by power

American Builder New products

WINTER BUILDING



**Calcium chloride is
recommended for concreting**

Use of calcium chloride to obtain higher strengths and satisfactory structural strengths within a short period of time is recommended as a standard procedure in cold weather construction work. Workmen in photo above are finishing concrete with outside temperatures at about 50° F. Columbia-Southern suggests use of calcium chloride to make up for lag in strength gain when temperatures drop below 70° F. More information may be obtained by writing Columbia-Southern Chemical Corp., Attn. T. D. Williams, Dept. AB, One Gateway Center, Pittsburgh 22, Pa.

Circle No. 10048 on reply card, p. 154



**Portable heater can go
up and down scaffolds**

Master's B-100 portable heater weighs only 78 lbs., is light and small enough to use on scaffolds as shown in the picture above. Can also be carried upstairs, through doors and almost any place a man can go. Heater puts out 100,000 btus of circulated, forced air heat every hour, burns low cost kerosene or fuel oil. One B-100 will heat an area equal to the average five-room house through the coldest days. More information from Master Vibrator Co., Dept. AB, Stanley Ave., Dayton 1, Ohio.

Circle No. 10049 on reply card, p. 154

*It's love at first sight
all over America*

Mrs. A. Oliver Ward, proud owner of a new home with a beautiful American Kitchen in Paddock Hills, new St. Louis suburb.



SHE SEES THE *American Kitchen* SO...THEY BUY THE HOUSE!

Mrs. A. Oliver Ward, Paddock Hills, St. Louis, is another example of home buyers everywhere who fall in love with the "house-selling" American Kitchen.

"When we walked into the kitchen of the Paddock Hills house," Mrs. Ward reports she said, "Oh, Ollie, this is it. This kitchen has everything I've ever wanted."

Like Mrs. Ward, new home buyers across the nation choose the house with American Kitchens "Pioneer"—the stunning new combination of natural birch and antique copper on steel frame. They

go for American Kitchens wonderful work-savers . . . the Roto-Tray Dishwasher, Built-In Ovens and Set-In Ranges.

Mayer, Raisher, Mayer, well known developers of Paddock Hills northwest of St. Louis, say "American Kitchens are a vital factor in selling our houses."

If you haven't already discovered the "house-selling" power of the "Pioneer" wood, copper and steel kitchen and other American Kitchens products, mail the coupon below. Let us show you how American Kitchens will sell your homes faster.

American Kitchens

DIVISION *Airco* CONNERSVILLE, INDIANA

SELL MORE HOMES FASTER

**American Kitchens Division, Dept. AB-106
Connerville, Indiana**

I'd like to have "no obligation" quotation on my next kitchen.
Please send your new Architects' and Builders' file.

NAME _____
ADDRESS _____
CITY _____ ZONE _____ STATE _____



SPECIFY FIR PLYWOOD FOR SOFFITS, GABLE ENDS, PATIO FENCING and EXTERIOR TRIM. Choose standard panels for smooth, flat, unbroken effect... Texture One-Eleven® ("grooved") plywood for striking pattern and texture. Either kind simplifies cutting and fitting... creates handsome contrast with masonry or other materials. Plywood accents offer ideal solution for quick and easy exterior "face lifting" on remodeling jobs, too.



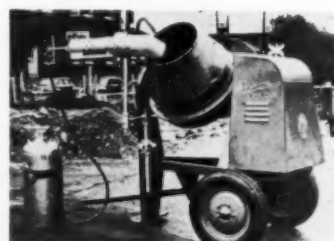
INSIST ON DFPA GRADEMARKS!

For Outdoor Use, Specify EXT-DFPA® Exterior Plywood: 1. standard Plyshield® grade for soffits, gable ends and low cost siding; 2. Overlaid panels (finest paint base for check-free finishes); 3. Texture One-Eleven® "grooved" panels.



Exterior plywood of other western softwoods also available; look for this DFPA grademark.

WINTER BUILDING



Concrete pouring guarded by winter heaters

Concrete heaters which will fit any concrete mixer regardless of size are offered by Littleford. Described as giving all necessary protection for perfect concrete pouring in winter weather, the units can be attached to mixer by an attachment which requires no drilling of holes or threading of pipe. Attachment holds heat deflector into mouth of drum at any desired angle. Concrete heaters with torch-type burners can be used on mixers from 3 to 28 cu. ft. From Littleford Bros., Attn. Wm. Bramlage, Dept. AB, 408 E. Pearl St., Cincinnati 2, Ohio.

Circle No. 10050 on reply card, p. 154



Material dryer easily transported to job

A mobile, fast and economical aggregate and material dryer, "Flash Flame" is offered to builders, painting and concrete contractors by Tarrant Mfg. Co. Light enough to be transported in a pick-up truck, the dryer is mounted on pneumatic tired wheels for easily handling, is about 14 ft. long by 4 ft. 3 in. high. Dryer is quick to operate, takes less than ten minutes to turn out dry materials. Prices from \$800 to \$1,340. From Tarrant Manufacturing Co., Attn. V. W. Conlee, Dept. AB, Saratoga Springs, N. Y.

Circle No. 10051 on reply card, p. 154

meet **EVERY** window need
Perfectly with
EV-RI-WAY
 All-Purpose, Weatherstripped
WINDOW UNITS

Unlimited combinations are available in EV-RI-WAY Units—AWNING • HOPPER • STACKED or CASEMENT—from singles to commanding WALL GROUPINGS.

Sound design combines with painstaking craftsmanship in producing these super value PONDEROSA PINE EV-RI-WAY Units—all preservative treated with water repellent.

Write Us TODAY

—for descriptive brochure that gives you sizes, arrangements and details.

Since



1884

EV-RI-WAY All-Purpose Window Units are in the famous Roach & Musser quality tradition—clean, sharp, sound and attractive.

OTHER R&M MODERN WOOD WINDOW UNITS

E-Z-KLEEN DOUBLE-HUNG REMOVABLE WINDOW UNITS

THRIFT RIBBON UNITS

E-Z-FLOAT REMOVABLE SLIDING WINDOW UNITS

E-Z-VENT Kind-to-Women WOOD AWNING WINDOW UNITS

THRIFT DOUBLE-HUNG WINDOW UNITS

SEE YOUR DEALER OR WRITE FOR LITERATURE

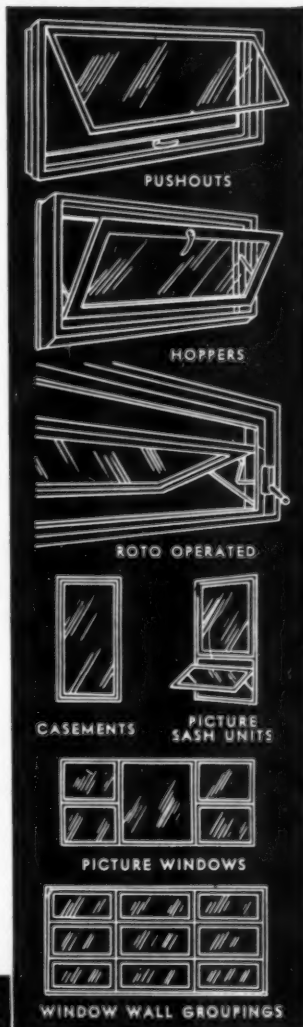


Roach & Musser Co.

8803 Grandview

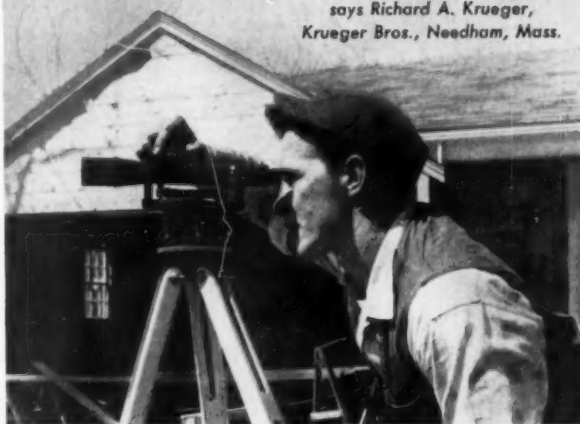
Muscataine, Iowa

OCTOBER 1956



"Berger 12" Dumpy Level pays for itself on just 3 houses!"

says Richard A. Krueger,
 Krueger Bros., Needham, Mass.



"Here's how: we figure a clear saving of \$60 per house on labor, gravel and cement by getting 'on-the-button' accuracy in measuring excavation depths, establishing foundation heights and grades for drainage and streets. Focusing our Berger Dumpy Level is quick and easy; optics are clear as crystal—which cuts time in setting up batter boards, leveling off first floors within 1/16th inch and installing the first course of siding."

The Berger Dumpy Level is designed to fit the builder's needs—priced to fit his budget. It is constructed of bronze, brass, steel and iron castings and forgings, which have been adapted from the most precise engineers' instruments. Centers are same type construction and material as used on the most expensive Berger levels. Horizontal circle is enclosed to assure dust protection. Leveling screws are of nickel silver and are dust protected. Like all Berbers, it takes the bumps in the field and stays on the job without time lost for repair.

Why the Berger Dumpy Level

is your best buy ... Compare!

CAST BRONZE AND FORGED BRASS CONSTRUCTION


TELESCOPE:	One piece hard bronze; 12" internal focusing; erect image; 24-power; 36mm. diameter objective lens.
OPTICS:	Coated—brilliant clear image.
LEVELING HEAD AND CENTER:	Forged steel and iron with precision fitted and matched tapers.
LEVELING BASE:	4 screws; nickel silver leveling screws with cold and heat resistant heads.
HORIZONTAL CIRCLE:	With vernier reading to 5 minutes. Fully protected guard.
SHIFTING CENTER:	Foot plate with trivet.
SPIRAL FOCUSING EYEPIECE:	Fully dust protected.
DUST PROTECTED:	Leveling screws, tangent screws and clamp screws.
CASE:	Mahogany carrying case.
TRIPOD:	Straight grained, kiln dried white ash.

Instruction manual for layout and instrument use.

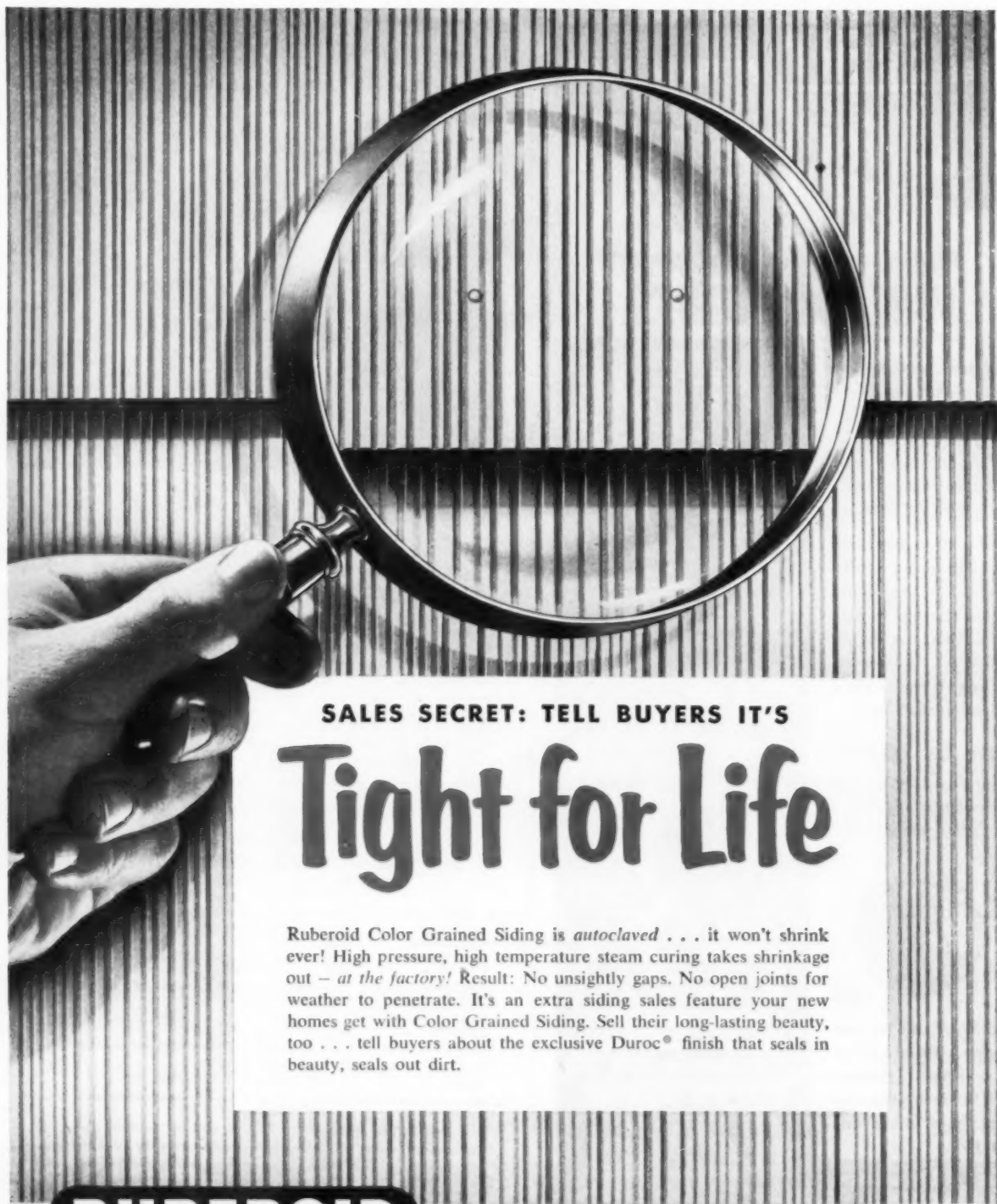
Instrument, complete with mahogany carrying case, tripod, plumb bob, sunshade... **\$174.50.***

Write for literature on the Berger Dumpy Level, our Berger Convertible, Service Transit-Level and Duplex Level. And ask about our Engineers' Transits and Levels.

C. L. Berger & Sons, Inc., 47 Williams St., Boston 19, Mass.
 *F.O.B. Factory

THE BEST IN  IS

BERGER
 ENGINEERING AND SURVEYING INSTRUMENTS...SINCE 1871



SALES SECRET: TELL BUYERS IT'S

Tight for Life

Ruberoid Color Grained Siding is *autoclaved* . . . it won't shrink ever! High pressure, high temperature steam curing takes shrinkage out — *at the factory!* Result: No unsightly gaps. No open joints for weather to penetrate. It's an extra siding sales feature your new homes get with Color Grained Siding. Sell their long-lasting beauty, too . . . tell buyers about the exclusive Duroc® finish that seals in beauty, seals out dirt.

RUBEROID **COLOR GRAINED** *Autoclaved* **SIDING**

ASPHALT AND ASBESTOS BUILDING MATERIALS

For more information, see your local Ruberoid building materials dealer.



you can **BUILD** and
SELL more house
... at lower cost with

■ With home buyer's increasing demands for major features, like ample storage space—and the design and cost problems of supplying them . . . architects and builders are doing some careful figuring.

Specifically, lets consider *more, easy-to-use storage space*, and how to create it with GLIDE-ALL Sliding Doors . . . easily, quickly and economically:

GLIDE-ALL Doors make floor-to-ceiling, wall-to-wall expansive wardrobes, huge closets in corners of small rooms, full-length, full-height hallway storage space, entrance-way guest closets, and in many other waste-space areas. GLIDE-ALL Doors save construction time and dollars . . . they're installed quickly, adjusted easily to fit the opening, decorate with the wall, and give a life-time of trouble-free performance. They are available in standard 8' and 6'8" heights, flush or recessed panel models . . . and in special sizes for unusual jobs. That's why we say: "you can build and sell more house at lower cost with GLIDE-ALL Sliding Doors." See Sweets or write for complete details, specifications and prices.

GLIDE-ALL®

GLIDE-ALL Doors are available from distributors throughout the United States and Canada. For information write Plant nearest you.

GLIDE-ALL DOORS ARE A PRODUCT OF
WOODALL INDUSTRIES INC.

DETROIT 34, MICHIGAN

CHICAGO, 3504 Oakton St., Skokie, Ill.
EL MONTE, Calif., 801 W. Valley Blvd.
FRANKLIN, Ohio, P. O. Box 290
LAUREL, Mississippi, P. O. Box 673
NEW YORK, Glen Cove Rd., Mineola, N. Y.
SAN FRANCISCO, 1970 Carroll Ave.

HAVE YOU SEEN

★ STARLITE ★

It's the new brighter-than-bright finish for stainless steel sink bowls exclusive with ELKAY. And what's more, it carries a new, lower than ever price. Here, too, is another arresting ELKAY consumer ad working for you.

Centerpiece
Of Beauty

add's glamour to your kitchen



STAINLESS STEEL SINKS

All eyes turn immediately to the lustrous beauty of your ELKAY Lustritone Sink... you are deemed a hostess of charm as well as a practical homemaker. The bright cleanliness of this stainless steel sink tells all that your home is spic and span... lets you enjoy the luxury of living without tiresome scrubbing and bleaching. You can have all the benefits of a Lustritone sink for no more than the cost of an ordinary sink. And, because it's guaranteed for life, you have lifetime loveliness that softly reflects any change in kitchen color combinations. Write for literature and prices today!

ELKAY MANUFACTURING COMPANY

1874 SOUTH 54TH AVENUE, CHICAGO 30, ILLINOIS

The World's Oldest and Largest Manufacturer of Stainless Steel Sinks... Since 1920

**American
Builder**

New products

WINTER BUILDING



Polyethylene film aids in winter construction

Lightweight, pliable Visqueen polyethylene film helps take the sting out of winter building when used for temporary closures or for protecting on-the-job materials. Translucent film does not cut out light and remains pliable even in coldest weather. Its light weight (20 lbs. per 1000 sq. ft.) allows its use easily and inexpensively. Price: 2 mil thickness, 3/4 cents per sq. ft.; 4 mil thickness, 1 1/2 cents per sq. ft. Visking Corp., Attn. J. F. Bernard, Dept. AB, P. O. Box 1410, Terre Haute, Ind.

Circle No. 10052 on reply card, p. 154



Portable heaters give recirculating heat

Recirculating heaters, the "Silent Glow" portables, are designed to furnish and maintain even temperatures throughout a room or area. Heaters can give from 120,000 btus to 300,000 btus of recirculating heat depending upon model. Three models vary in length from 36" to 44"; in height from 27" to 39" and in weight from 98 lbs. to 195 lbs. Prices from \$198 to \$330. From Silent Glow Oil Burner Corp., Attn. J. A. Woodburn, Dept. AB, 850 Windsor St., Hartford 1, Conn.

Circle No. 10053 on reply card, p. 154

APPLIANCES



Built-in refrigerator and freezer needs no supports

A new refrigerator-freezer unit has been introduced by Preway. Of one-piece construction, the unit requires no supports or braces since it has a supporting frame which automatically assures proper height and spacing for ventilation. Combination also features "shell type" condenser which eliminates danger of condensation and dripping water. Total capacity for both the freezer and refrigerator: nearly 13 cu. ft. Price: \$797.95. From Preway Inc., Attn. H. Shea, Dept. AB, 1430 Second St. North, Wisconsin Rapids, Wisc.

Circle No. 10054 on reply card, p. 154



New furnace fits into wall of any room

New concept in the heating of small homes is International's R70 wall furnace which can actually open onto any room of the house. Encased in a smooth vertical cabinet, with a louvered, framed door and warm willow finish, furnace will heat up to six rooms (55,000 btus) as blower sends warm air flowing out bottom of unit to flood floors all the way to outside walls. International Oil Burner Co., Attn. S. J. Heiman, Dept. AB, Spring and Park Aves., St. Louis 10, Mo.

Circle No. 10055 on reply card, p. 154



New Homes by Cincinnati's Raeburn Construction Co. feature low roofs, no attics. Inset: Alfol in typical wall installation.

"Alfol gives the most effective job . . . in the least man-hours of installation!"



Pacing the Cincinnati market for better homes, Raeburn Construction Co. specializes in low-slung, modern designs — low roofed and atticless. Quality built throughout, Raeburn homes are insulated with Borg-Warner's Alfol Reflective Insulation.

"For the type of homes we build," writes owner Stuart L. Faber, "we wanted the best in winter insulation, along with a super-efficient summer insulation that cools quickly in the evening, won't give off heat all night. Reflective insulation was the only logical choice."

Efficiency the prime factor

"And in 10 years experience with various reflective makes, we have found that Alfol gives the neatest, most effective job . . . in the least man-hours of installation!"

Naturally, Mr. Faber also welcomes the initial savings provided by Alfol, and the handling ease made possible by its remarkable compactness. But the primary factor was efficiency: "Our Alfol choice has already been justified," writes Mr. Faber, "by the comments of our new owners."

Patented, the Alfol blanket consists

127-55

of multiple aluminum foil sheets that space themselves automatically on application, reflect 95% of all radiant heat. A tough duplex and kraft backing is built in to offer full application support, provide a positive vapor barrier.

Clean and non-irritating, Alfol takes the "itch" out of insulation. And its unique compactness (500 sq. ft. to the roll) minimizes handling and storage expense. That's why Alfol usually costs less. Your dollar buys less labor, less "overhead" . . . more and better insulation.



Send today for free copy of new **ALFOL DATA BOOK** which tells all about this growing favorite in insulation. Learn how Alfol adds a plus value to your homes . . . saves money too! No obligation.



ALFOL
ALUMINUM FOIL INSULATION



REFLECTAL CORPORATION

A subsidiary of Borg-Warner Corp.
310 South Michigan Ave., Dept. A-14
Chicago 4, Ill.



Quality They Can See...



... and a Terne Roof Will Sell Your Homes!

Normally, your prospective home buyers may not ask about the roof. But a Terne roof has a distinctive quality those buyers can see—and a feature you can sell.

They will be impressed to know that a Terne roof will last as long as the house stands... a Terne roof is fireproof, weathertight, windproof and can be painted any color, anytime, to harmonize with the house exterior. And if the house is air conditioned, a light-colored Terne roof will reflect more of the sun's heat than any other type of roof.

The beauty and serviceability of a Follansbee Terne roof is that added attraction that will help you sell your homes quickly.

REFLECTIVITY

Painted white or a light color, Terne will reflect more of the sun's heat than any other roof.

LONG LIFE

Many installations of Terne have been in service for more than 100 years.

EXTRA BEAUTY

Terne can be installed in either standing, batten or horizontal seams—each a distinctive design of beauty.

Roofing and sheet metal contractors everywhere will install Follansbee Terne Roofs.



FOLLANSBEE

STEEL CORPORATION

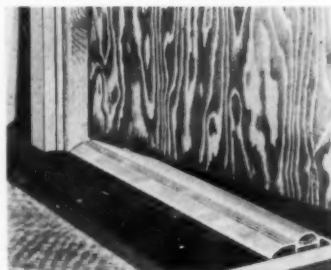
FOLLANSBEE, WEST VIRGINIA

Terne Roofing • Cold Rolled Strip • Polished Blue Sheets and Coils
Sales Offices in Principal Cities

**American
Builder**

New products

SPECIALTIES



Anodized threshold to match brass hardware

To match brass hardware, a new extruded aluminum threshold with an anodized finish is now offered. The anodized Albras Thresholds will not tarnish or need polishing since the anodizing puts a coating on the surface of the aluminum almost as hard as steel. AP thresholds come in all standard lengths. List Prices: AP 3¾" at \$1.95 per ft.; AP-118 at \$2.25 per ft.; AP-158 at 95 cents per ft. From Mack-lanburg-Duncan Co., Dept. AB, Box 1197, Oklahoma City 1, Okla.

Circle No. 10056 on reply card, p. 154

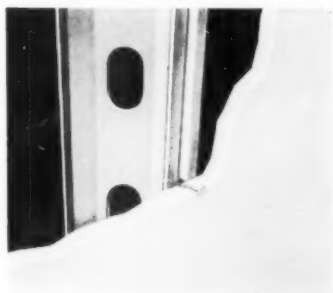


Polyethylene film comes packaged in rolls

Polyethylene film packaged in rolls containing 750 sq. ft. and 36 in. wide is now being marketed by E. L. Bruce. The 36 in. width is recommended as most practical for use in surface dampproofing concrete floor slabs. The strong, transparent film is available in two weights: two-mil film, Bruce Vapo-Check, for a permanent moisture barrier for concrete slab subfloors; and four-mil film, Bruce Vapo-Check Ground Cover, heavy duty film that prevents moisture from attacking joist subfloors and finish floors. From E. L. Bruce Co., Dept. AB, Memphis, Tenn.

Circle No. 10057 on reply card, p. 154

SPECIALTIES



Nailable steel stud partition system has many uses

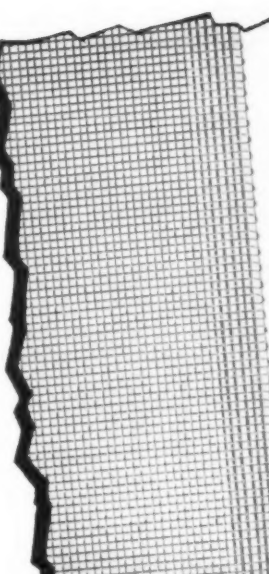
Permalok, a new system for the low-cost erection of non-bearing partitions, is now being marketed by Penn Metal. System consists of nailable steel studs, track and bridging. Metal lath, gypsum lath or any type of panel can be secured to Permalok studs as simply as to wooden ones. Nailing device bites nail or screw with a grip designed to prevent any possibility of loosening. Studs come in two sizes: 2½" and 3½". Priced from \$175 to \$230 per 1000 lineal feet. Penn Metal Co., Attn. M. K. Brown, Dept. AB, 40 Central St., Boston 9, Mass.

Circle No. 10058 on reply card, p. 154

Tile clip designed to space and cover drain tile joints

A new idea for covering the joints of drain tile is presented by Boco Industries. Boco Tile Clip will both space and cover the joints of drain tile and may be used instead of tar paper and other usual methods. Recommended for septic tank tile fields, footing drains and farm drains, the clip is of polyethylene, molded to fit snugly against the outer tile surface. Fin on top serves as handle and guide to alignment while two lugs inside fit between adjoining tile and take guess work out of spacing. Lugs also make it impossible for clip to fall out of position during back-fill operation. Prices: under 5,000 pieces, \$60 per thousand; over 5,000 pieces, \$45 per thousand. Information from Boco Industries Inc., Attn. Robert T. Coleman, Dept. AB, 19424 W. Eight Mile Rd., Detroit 19, Mich.

Circle No. 10059 on reply card, p. 154



Webster defines:
tēn'sion
as
strain, intensity
of striving

**Durall takes the tension
out of the job and
puts it in the screens.**

Durall Tension Screens are so easy to order and install. You get a perfect fit every time—top to bottom—side to side, and the Multi-Strand edge (*in all sizes*) makes certain a trap-tight fit. But that's only the beginning of the big advantages of Durall Screens. Here are some more...

NEW CLAMP BRACKET



It makes Duralls so easy to install, that a novice looks like a professional. Tap it in the sill, drive one screw, "snap-in" the screen. It adjusts automatically for perfect tension.

COST LESS TO INSTALL



It takes only 5 screws to install each Durall. A man can easily install one in five minutes from inside the building. And there are sizes for all stock frames so they fit perfectly, with no expensive and time-consuming fitting on the job.

LESS EXPENSIVE TO BUY



They have no all-around frames, just top and bottom rails that hold the screen in the window under tension. They're all aluminum and top quality throughout.

LOOK SO GOOD



Fit in the window so taut and trim... they "look like a million." Made of "Alclad" aluminum, Duralls never rust, stain nor streak the house. Buyers appreciate that.



NO CALL BACKS

Duralls put up nine years ago are still going strong... tight and secure against insects. And they're made so perfectly there are no "call backs."

They're perfect for porches and breezeways too—widths up to six feet—any height. Ask your dealer about them, or write to...

DURALL
PRODUCTS COMPANY
Sixth Ave., York, Penna.

Manufacturers of the Durall line of custom-made Screen-Porch Enclosures, Bermuda Screen Houses, Aluminum Combination and Screen Doors.

Dramatize your houses with the exciting



Kitchens such as this "Carefree Classic" catch a woman's eye—help sell your whole house. Convenient pass-through has wide G-E Waist-High Oven with drawers below, easy-cleaning Porcelain Enamel Sink with Food Disposall,[®] top-

loading Undercounter Dishwasher. Against oak paneling are G-E Base and Wall Cabinets, roomy Refrigerator-Freezer. Center snack bar has built-in Range Surface Units. Available in 5 Mix-or-Match colors and white at your G-E distributor's.

G.E. and only G.E. offers you so much help from blueprint to house sale!



1. Kitchen Layout Planning. General Electric's Custom Kitchen-Laundry Design Service will help you in designing kitchens and improving layouts.



2. Color Styling Assistance. A General Electric distributor builder specialist works with you on appliance deliveries and installation—even on decoration.



3. Model Home Program. General Electric gives you advertising, publicity and merchandising assistance based on hundreds of success stories.



4. On-Site Selling Aids. You get on-the-spot demonstrations of your General Electric kitchens by experts—everything you need for action at the point of sale!

new General Electric Kitchen-Laundry!

Be the first to capitalize on it in your area

Let G-E products and service help you sell your homes fast—whether they are priced at \$9,600 or \$96,000.

Dramatic New General Electric Kitchen-Laundries are available NOW—right now.

No question about it! A house is *easier* to sell when it's equipped with a General Electric Kitchen-Laundry.

When a prospect is enthusiastic about your kitchen, she's usually enthusiastic about your house. And we don't have to tell you how excited women can get about General Electric Appliances.

Dozens of Styles Available in Five Mix-or-Match Colors Plus White

General Electric modular kitchens, free-standing and built-in appliances—the whole exciting General Electric line in all colors—is available through your General Electric distributor.

These new, magnificent appliances are ready to be shipped to your building site *now—right now!*

No one else helps you as much as this

Your General Electric distributor will work hand in hand with you, even before your house plans are drawn up. And he will continue to work with you clear through kitchen layout, appliance installation and final decoration—right down to helping you select your paints.

Get all this assistance from General Electric for your

houses. Be the first builder in your area with the new, dramatic General Electric Kitchen-Laundries. Contact your General Electric distributor *now*. He will help design and plan your kitchen and provide merchandising assistance. Or write direct to General Electric Company, Home Bureau, Appliance Park, Louisville 1, Kentucky.

As little as \$4.00 or \$5.00 a Month Extra*

Your customers *can* afford General Electric Kitchen Equipment. When included in a long-term mortgage, the cost is usually within the range of an average monthly phone bill.

New, big advertising campaign!

Prospects for houses will see the new, exciting General Electric Kitchen-Laundry in colorful spreads in forthcoming issues of *Life*, *Better Homes and Gardens* and other magazines. To *sell your houses faster*, tie in with this powerful promotion in your home town!

Progress Is Our Most Important Product

GENERAL  ELECTRIC

**SEND FOR
THIS NOW!**

*Installation and accessories additional. Price subject to local variation.

**General Electric Company, Home Bureau
Appliance Park, Louisville 1, Kentucky**

Yes! Send me by return mail General Electric's free builder handbook that will answer my questions about Mix-or-Match Modular Kitchens.

NAME _____
(please print)

STREET ADDRESS _____

CITY _____ STATE _____

PUB. NO. 624-0386 A83

Briggs Announces a MERCHANDISING

Color Selection Is One of the Most Exciting and Important Parts of Home Planning

Before World War II, a large percentage of all home exteriors were painted white. Interiors, too—particularly the kitchen and bathroom—made only limited use of color decorating possibilities.

With the greatly accelerated home building activity following the war, color really came into its own. Today, there's practically no decorating or interior design problem that can't be solved by the right combination of colors. And color is one factor that can improve the appearance and salability of any home.

Now, Briggs Introduces a Comprehensive Plan to Help You Capitalize on Professionally Color-Styled Bathrooms

Through the services of Howard Ketcham, famous color engineer, Briggs brings you a comprehensive new book of professionally color-styled bathrooms, entitled "Color Guide to Bathroom Design and Decoration." This practical book not only gives you the color-by-color know-how you need to use for modern bathroom styling, but enables you to present *planned color selection* to your customers.

Handsomely prepared, the book contains beautiful and versatile color plans to bring a bright new look to the bathroom. It can help you put correct color's cheerful vitality into an important new place in your homes. It can make your bathrooms a center of attraction and interest—and actually increase the value of your homes!

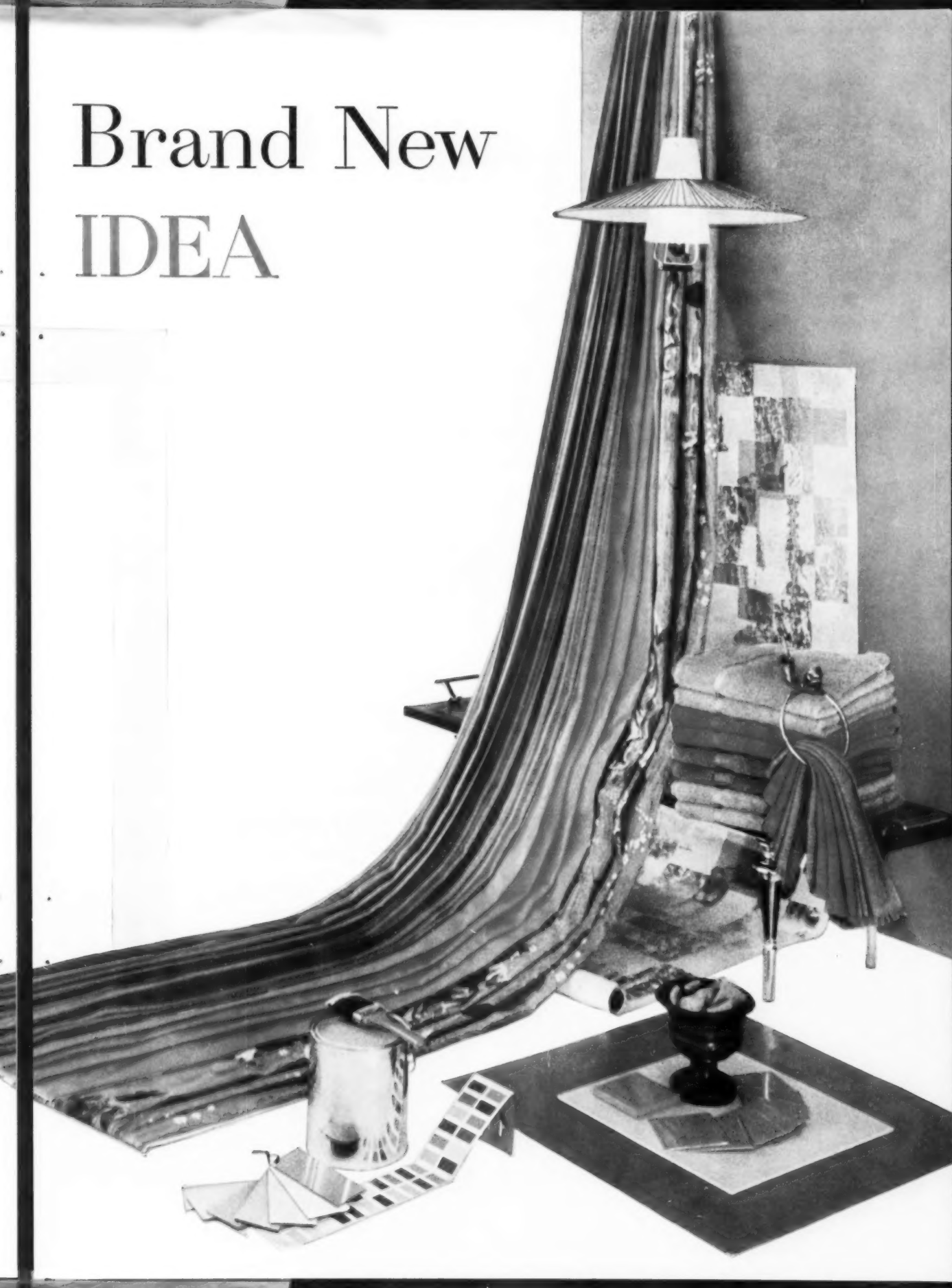
For further information — consult your Briggs Representative or write to
Briggs Manufacturing Company — 300 Buhl Building, Detroit 26, Michigan



BRIGGS[★] Beautyware

"America's Smartest Plumbing Fixtures"

Brand New IDEA



A woman always looks at the kitchen first...



she'll look twice at these

WESTINGHOUSE BUILT-INS

Now with these brand new Westinghouse Built-Ins you can offer the most modern kitchens in America!

They're true built-ins with the color and style your prospects are looking for. They say right away that you've paid careful attention to every detail throughout the house. And they're today's most-advanced built-ins . . . assuring your prospects their house will stay new for years.

Westinghouse Built-Ins come in 5 Confection Colors—Sugar White, Lemon Yellow, Mint Aqua, Frosting Pink, Nougat Gray—all popular pastels that never go out of style. They pack your kitchen with maximum prospect appeal—to give you a real sales-closing story. And they're all available now!

See your Westinghouse Distributor or write: Contract Sales Dept., Westinghouse Electric Corp., Major Appliance Division, Mansfield, Ohio.

WATCH WESTINGHOUSE
WHERE **BIG** THINGS ARE HAPPENING FOR YOU!



Big sales-making extra! New Westinghouse undercounter dishwasher installs easily with special Y-tail pipe that eliminates extra trap. "Custom" front panels come in 5 Confection Colors, Brushed Chrome, Antique Copper, prime-coated steel, matching wood front.



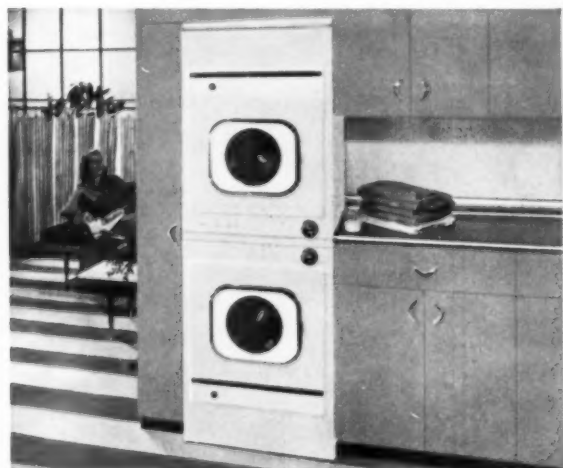
Women expect a disposer in a house that's really up-to-date. This Westinghouse Disposer installs easily, has special dishwasher drain line opening. And it ends forever the garbage nuisance—a real plus you can use to help clinch the sale!



What women want in a built-in refrigerator-freezer are all the convenience features the best free-standing refrigerator offers. And they're all here in this 13 cu. ft. Westinghouse Horizontal Built-In. Special Meat, Butter and Egg Storage . . . a New Tilt-down Showcase Crisper . . . 120-lb. Zero-Degree Freezer—all at easy reach-in level.



The same deluxe features are in this Westinghouse Vertical Built-In. Less than a yard wide! New Stoop-Saver Design keeps foods used most often up top. 13 cu. ft.; 155-lb. zero-degree Freezer.



Complete Home Laundry in 25 Inches! That's the Westinghouse Space-Mates. Separate Laundromat and Dryer install vertically—both do a full 8-lb. load. There's no need to add an extra laundry room—Space-Mates will install anywhere there's 25" . . .



Or you can build-in the same units side-by-side—under a counter or even in a wall at waist level. Installation's simple with easy-to-hook-up plumbing and venting connections. Available in 5 Confection Colors. It's the builder's answer to a low-cost complete home laundry!



Most flexible built-in range line in the business. You can combine ovens and platforms anyway your prospect likes . . . it's a personal touch that helps you sell. Shown: Giant 24" interior-width oven; separate 2-unit platforms with remote controls.



Another arrangement is 17" oven with 4-unit surface platform. Platform controls come flush-mounted . . . oven has clock and timer. Line offers choice of 5 Confection Colors, Antique Copper and Brushed Chrome. You can be sure . . . if it's Westinghouse.

NEW TRESTLES WITH 9 HEIGHT ADJUSTMENTS



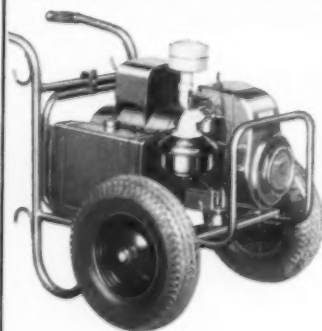
FOR FAST MASONRY CONSTRUCTION, mason contractor L. Hubbard of Euclid, Ohio, uses new "Trouble Saver" Putlog Trestles on a project for Joe Miller Homes Co. The new Putlog Trestles are 5'-long and provide nine height adjustments, ranging from 4' to 6'. Masons set each Putlog on the top course, then brick is laid over them. Putlogs are pulled out of the wall and adjusted to new height as the job progresses. When a pin is removed, the new Putlog Trestle swings down flat for easy storage or shipping.

THE STEEL SCAFFOLDING COMPANY

Telephone EV ergreen 3-5510 Dept. AB 856 Humboldt Street, Brooklyn 22, New York

KOHLER Electric Plants

Take your own power wherever the job is done — save time, expense



MODEL 2.5M25, 2500 watts, 115 volt AC. Manual starting.

Kohler Co., Kohler, Wisconsin
Established 1873



Use Kohler Electric Plants for low-cost, portable power anywhere, anytime. Eliminate expense and time-loss of temporary power line hook-ups. Operate carpenters' saws, planers, drills, grinders, vibrators, pipe threaders and cutters. Two-wheel, rubber-tired hand cart available for portable models. Sizes, 500 watts to 35 KW. Write for folder L-24.

KOHLER OF KOHLER

PLUMBING FIXTURES • HEATING EQUIPMENT • ELECTRIC PLANTS
AIR-COOLED ENGINES • PRECISION CONTROLS

**American
Builder**

New products

WINDOWS AND DOORS



Garage doors come in California redwood

Garage doors to complement the architecture of the home are offered by Winfield Doors in solid California Redwood. Set on smooth running ball bearing rollers, doors raise at the touch of a finger, have weather tight joints, steel hardware. Prices: for 8 x 7 redwood door, \$90; for unit illustrated, two doors and three fixed panels, \$260. Information from Winfield Door Corp., Attn. G. D. Shemin, Dept. AB, P. O. Box 27, Lindenhurst, N. Y.

Circle No. 10060 on reply card, p. 154



Glass jalousie windows give controlled ventilation

Win-Daher glass jalousie windows are suggested for perfectly controlled ventilation in all climates. The windows, which come in a variety of styles and sizes to meet architectural demands, have extra wide louvers to provide rain protection without closure, heavy duty frames of heavy gauge aluminum extrusions, long-life vinyl weatherstripping, finger-tip control operating hardware. More information from Daher Products Corp., Dept. AB, 613 Salem Ave., S.W., Roanoke, Va.

Circle No. 10061 on reply card, p. 154

THE NEW BEAUTY OF CONCRETE MASONRY

(right) Concrete masonry constructed model home in "Parade of Homes." Note slump structural wall units used.

From a relatively small part in the building industry to a starring role . . . that's the remarkable record of concrete block! Even more unusual is the brief period of time in which this progress was made.

It's not so long ago that concrete block was considered suitable principally for basements. Then its use was extended to small buildings such as garages. Expansion into new applications was slow because block-making itself was a slow and painstaking process.

With the introduction of the Vibrapac automatic block machine, however, the situation

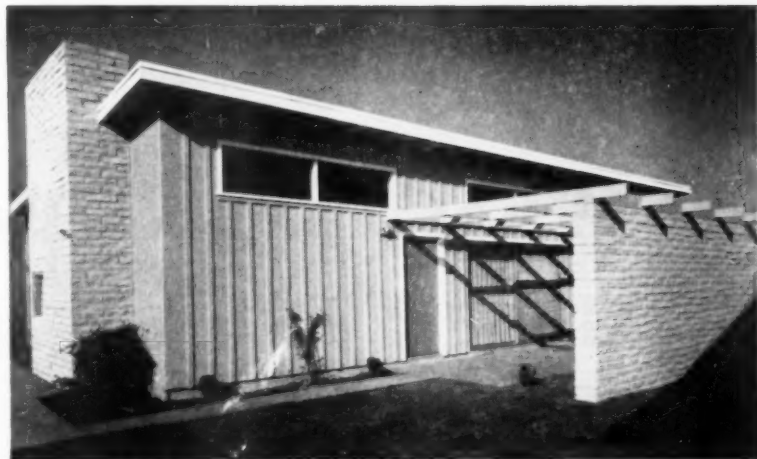
(right) Dense aggregate block in stacked bond used in construction of this Sewage Treatment Plant.



(left) Note the beauty of the exposed concrete block wall in this church interior. 4" and 8" units were used alternately.

changed dramatically. Almost overnight Vibrapac block caught the fancy of the building industry. Its availability and economy, combined with high quality, revolutionized old-time building concepts. The ease and speed with which Vibrapac block could be laid, the development of modular units, and its dependable uniformity attracted attention everywhere. Builders who wanted to build faster, better and more profitably swung over to concrete masonry in ever increasing numbers. Architects, seeing the almost unlimited versatility of Vibrapac block, specified block for churches, schools, theatres, commercial, government and industrial buildings as well as for housing.

To prospective owners of homes and other buildings, the new beauty and adaptability



CONCRETE BLOCK . . . Now Recognized as a Complete Building Material

of concrete masonry were eye-opening. Because of the Vibrapac process, concrete block could be used effectively and economically in every phase of construction . . . for exterior walls, solid or veneer, interiors, partitions, floors, ceilings, corridors, entrances. In fact, the entire building from roof to basement could now be erected using one major mate-

(right) Frank Lloyd Wright designed this beautiful concrete masonry home, using standard 4" high block.



Lightweight block were selected in the construction of the beautiful Ford Rotunda at Dearborn, Michigan.

rial only . . . Vibrapac block. Furthermore, the appearance, strength and longevity would be as good or better as with any other kind of building material. Concrete block, with the aid of the Vibrapac automatic method of block production, had "arrived"!

When the "building boom" developed, the true worth of concrete masonry was again



Concrete masonry constructed church school. Note the unusual effect created by alternately protruding block.



(left) Exposed concrete block in stacked bond adds charm to this residential fireplace.

demonstrated. In new homes especially, concrete block became adaptable to a wide range of artistic and practical effects which added



California police station built of concrete block for beauty, as well as for fire safety and earthquake protection.

to the spaciousness and comfort of modern living . . . without adding to the cost. Today, concrete block is recognized generally as the truly universal and complete building material. For information write Besser Company, Box 183, Alpena, Michigan, U.S.A.

What's a "Fish Bowl"

Got to do with Insulation?



You can easily make this demonstration unit yourself! Just build a 24" x 12" frame out of 1" x 6" lumber. Staple 16" standard Balsam-Wool to the top, as shown. Fill with water—and for interest, add fish.

What does it prove? Just this—Balsam-Wool effectively resists moisture...a strong sales point that can be dramatically demonstrated to your customers.

Everyone agrees that an insulation, to be effective, should resist the transmission of moisture. Good insulations today provide vapor barriers as an integral part of the product—and Balsam-Wool does just that for you! The warm side liner of the blanket fully meets specifications for a vapor barrier.

You probably won't equip each house you build with such a "fish bowl"...but you can merchandise the *extra value* of Balsam-Wool's quality insulation features:

1. Vapor barrier protection (*condensation problems minimized*).
2. Low thermal conductivity (*for important fuel savings and air conditioning economy*).
3. Resistance to wind infiltration (*special application flange makes for a better seal*).
4. Bonding of insulating mat to liners (*insulation stays put for a "house-time"*).

Balsam-Wool *sealed* insulation is sold by lumber dealers. It's non-irritating, clean and easy to handle. Wood Conversion Company, Dept. 118-106, First National Bank Building, St. Paul 1, Minnesota.



BALSAM-WOOL®

Blanket Insulation

SEALED AND PROTECTED
FROM MOISTURE







Builder — M. T. Broyhill & Sons Corp., Arlington, Va.

500-Home Broyhill Park -- Built and Sold Out in 8 Months!

Here's a house that was sold before it was completed. It's one of 500 homes at Broyhill Park, a beautifully planned community in suburban Arlington, Va., just across the Potomac River from Washington.

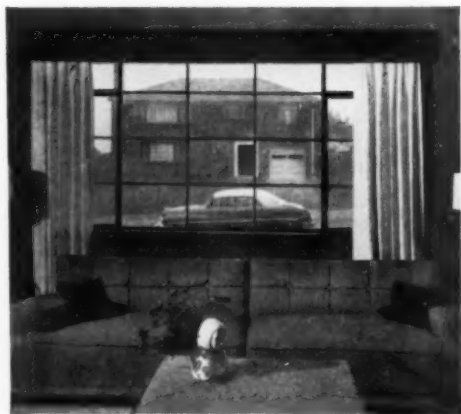
Prices ranged from \$13,100 for a wide selection of attractive ranch houses to \$20,300 for the handsome two-level "Eastern Rambler" shown above. Included were such sales-catching features as complete electric kitchens (dishwasher, garbage disposal, range and refrigerator), oak flooring, ceramic tile baths and steel casement windows throughout. No wonder all 500 homes were sold out well before Broyhill Park was completed in December, 1954!

Steel windows always add a big plus value to homes like these. Look at the crisp, clean lines of the ranch windows in that Eastern Rambler. They promise floods of cheery sunlight, plenty of healthy fresh air, and a broad, sweeping view from within. And steel's great strength, which permits those slim frames and muntins, also assures the home owner long, trouble-free service.

But steel windows do more than add sales appeal. They help you to keep your building costs down in *two ways*: (1) steel windows cost less than most other types, and (2) steel windows cost less to install because they come factory-assembled (with a steel casing, if desired) for fast installation.

You'll find that a wide selection of steel windows in all standard types and sizes is available from your local building supply dealer. Or contact the nearby representative of any manufacturer of steel windows. See Sweet's file 16b.

For many years manufacturers of fine steel windows have used solid, hot-rolled sections of open-hearth carbon steel made by Bethlehem.



MAXIMUM LIGHT AND AIR . . . Steel casements are always popular. See how slim the framing members are, allowing the most natural light and the best view. Ventilating lights swing out to catch every breeze. Storm windows and screens clip on easily, *from the inside*. Available in many stock types and sizes; Bonderized, prime painted and factory assembled. Many can be glazed with insulating glass.

BETHLEHEM STEEL COMPANY
BETHLEHEM, PA.

On the Pacific Coast Bethlehem products are sold by
Bethlehem Pacific Coast Steel Corporation. Export
Distributor: Bethlehem Steel Export Corporation

BUILD FASTER...SELL FASTER WITH
STEEL WINDOWS





ROOM SHOWN IN V-GROOVED BIRCH!
To brighten the daylight effect of this large cheerful living room you would do well to use G-P birch. Its mellow, satiny tone imparts a warm glow in complete accord with modern sunny living, and as you can see, this room will always extend an open invitation.

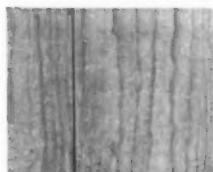
About 53c a foot
Also available in Savannah Paneling
Clip system about 65c a foot

Average home buyers **BUY** a better-than-average home **FASTER**

**offer them the dramatic beauty of real wood
with low cost G-P Prefinished Hardwood Paneling**

Your prospect is actually upgrading himself when he considers buying this house. He wonders if it will be pleasant to live in, and since he probably plans to move into an even better home within five years or so, he wonders if this house will resell easily. The greater value and distinctive appearance of G-P Hardwood Paneling give him quick

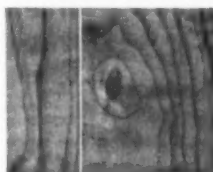
assurance on both questions. Your choice of G-P V-grooved Hardwood Paneling helps him picture a scene of family happiness and good living surrounded by these hospitable rooms. This, plus the knowledge that the enduring quality and beauty of wood will bring the same picture to future owners, is what makes average home buyers buy faster.



V-GROOVED CHERRY.
About 72c a foot.



V-GROOVED BLOND CATIVO
About 47c a foot.



V-GROOVED WALNUT
About 72c a foot.



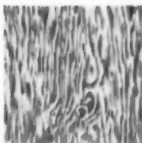
**V-GROOVED HONEYTONE
OAK.** About 52c a foot



V-GROOVED RED GUM
About 48c a foot.

Look at the advantages G-P Hardwood Paneling offers for profitable installation:

- Completely prefinished and ready to install—no further finishing or waxing required.
- V-grooved on the veneer joints to simulate random planking.
- Edges of panels eased for continuous plank effect.
- Back sealed for stability.
- 4 ft. by 8 ft. and 4 ft. by 7 ft. sizes available in 1/4-inch thickness.



RIPPLEWOOD . . . textured plywood panels . . . can be painted in lovely two-tone color effects. 12"x 8' wall—as little as \$24.00.

G-P STRIATED PLYWOOD® . . . striking painted or stained . . . grooves help conceal joints. 12"x 8' wall—as little as \$27.00.

*Patent applied for.

GEORGIA-PACIFIC CORPORATION **Hardwood Plywood Paneling**

—SEND FOR FREE LITERATURE—

Georgia-Pacific Corporation
270 Park Avenue, New York 17, N. Y.

Dept. AB1056

Please send me sales literature on G-P Prefinished Hardwood Paneling.

NAME _____

COMPANY _____

STREET _____

CITY _____

STATE _____

You can please every buyer with FULL LINE OF GAS, ELECTRIC

... all designed to fit
standard cabinets
and cut your costs!

You couldn't ask for better traffic-builders and greater sales appeal than you get with Tappan. The leader in quality range-making for 75 years, Tappan triumphs again with the revolutionary new electronic range, the latest in a long list of "firsts." Add this to a tremendous variety of Tappan gas and electric built-in ovens and surface units for use in all kinds of flexible combinations—and you can please every customer with units for every kitchen plan and price.

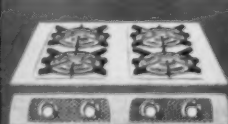
Show them Tappan's new ideas, new features, new styling—all in the world's only complete choice of gas, electric and electronic built-in ranges!



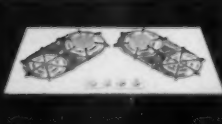
*Show 'em the Miracle Range
they're raving about everywhere*
THE AMAZING TAPPAN ELECTRONIC!

They've read about it, talked about it—now women everywhere want to use this sensational Tappan cold-oven range that cuts cooking time up to 90%! You can cash in on its unbelievable speed, new coolness for kitchens, remarkable new cleanliness. It's automatic, safe, economical . . . uses conventional wiring . . . operates on 220-volt current, three-wire circuit.

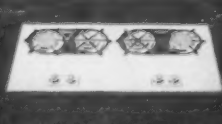
Fit every buyer's building
or remodeling plans with
choice of 3 gas and
4 electric surface units!



24-inch gas drop-in



36-inch gas drop-in



42-inch gas drop-in



13-inch electric drop-in

NOTHING COOKS LIKE A **TAPPAN**...

TAPPAN

OR ELECTRONIC BUILT-INS



Still more sales excitement with TAPPAN GAS and ELECTRIC BUILT-INS . . .

Whatever they want—give it to 'em with Tappan! Incredibly fast electronic ovens team with a wide variety of gas or electric surface units. Gas or electric built-in ovens combine perfectly with Tappan surface units. All fit standard cabinets, all serviceable without removal from cabinet or wall. Installation's easy and inexpensive with every Tappan Built-In. And they're available with Visualite-window or solid doors, chrome or porcelain oven linings. Choice of gleaming Lusterloy stainless or Copperloy finish. Both gas and electric ovens with separate roll-out broilers.

All fit standard 24-inch cabinets!

**Best-looking, best cooking features make
TAPPAN BUILT-IN RANGES SELL ON SIGHT!**

- Best-baking chrome-lined oven
- Convenient Visualite oven window
- Lift-off oven door
- Automatic roast control
- Eye-level automatic controls
- Separate roll-out broiler drawer
- World's fastest cooking
- Set 'n Forget thermostatically-controlled burner
- Widest range of heat selections
- Ample top work space

**CALL, WIRE, OR MAIL COUPON TODAY
FOR FULL DETAILS ON EVERY TAPPAN BUILT-IN!**



that's why Tappan sells so well!

- LEADER IN BUILT-IN RANGES
- FIRST WITH ELECTRONIC COOKING FOR THE HOME

The Tappan Stove Company
Dept. AB-106, Mansfield, Ohio

Please rush complete facts and availability information
on the new Tappan

☐ Electronic ☐ Gas ☐ Electric Built-In Ranges

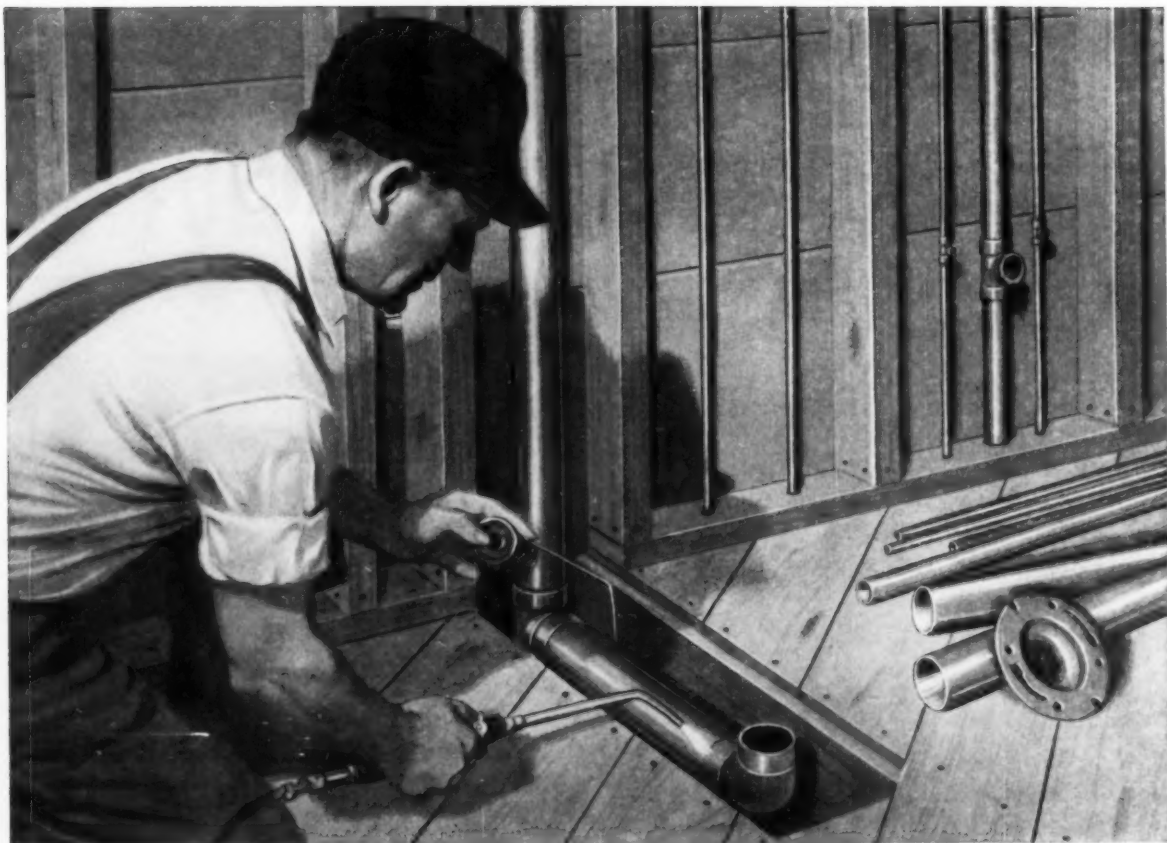
Name

Firm

Address

City Zone State

☐ I build homes ☐ I remodel kitchens



CHASE[®] COPPER...sign of QUALITY in drainage lines!

Remarkable how inexpensive it is to give drainage lines *two-way extra quality*, with Chase copper drainage tube (DWV). *Far longer service life and greatly improved efficiency* are assured.

Drainage lines of Chase copper tube *resist corrosion—can't clog with rust—stay efficient* over the years! Their interior is smoother; flow is unobstructed at joint connections—*larger volumes* of waste water can pass through them because friction is *reduced!*

Chase copper drainage tube is 4 times *lighter* than ordinary drainage pipe. Can be pre-assembled and installed with great savings in time! It can be cut to length right on the job. Requires fewer joints because it comes in 20 foot lengths. And rugged, leakproof solder joints fit within standard partitions, eliminating expensive furring out!

Insist on Chase copper drainage tube (DWV). Add *extra-value* to every home—with *little or no extra cost!*



Longer-lasting radiant heating installations are economical, quick and clean when made from Chase copper water tube. No worry about leaks or repairs—can't clog with rust!

Chase

BRASS & COPPER CO.

WATERBURY 20, CONNECTICUT • SUBSIDIARY OF KENNECOTT COPPER CORPORATION

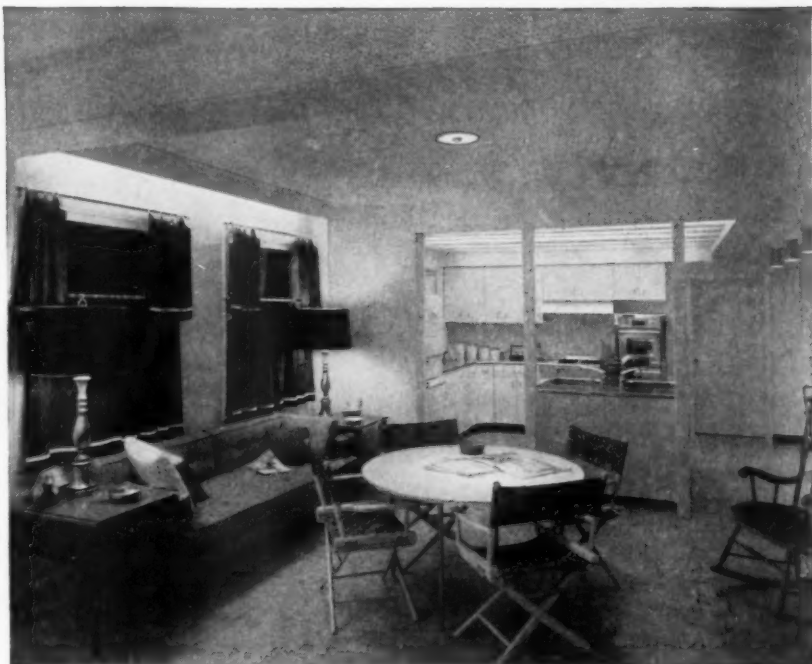
The Nation's Headquarters for Brass & Copper

Atlanta	Chicago	Denver	Indianapolis	Minneapolis	Philadelphia
Baltimore	Cincinnati	Detroit	Kansas City, Mo.	Newark	Pittsburgh
Boston	Cleveland	Grand Rapids	Los Angeles	New Orleans	Providence
Charlotte	Dallas	Houston	Milwaukee	New York	Rochester
	St. Louis	San Francisco	Seattle	Waterbury	

Home modernizing: *New boom in building!*



BEFORE



AFTER

Before modernization—a dull and unappetizing dining room. After remodeling—a cheery family activity room. Here is Light for Living at work! Multiple use of carefully selected fixtures; overhead in the once-drab dining room, a recessed spotlight—and cornice lighting that makes the room seem larger. In the kitchen, a luminous ceiling highlighted by three bullet-type fixtures. This completely remodeled home in Cleveland, Ohio, was featured in the August issue of *LIVING For Young Homemakers*—proving that home modernization can be a service to customers, a profitable field for builders.

Light for Living means extra profits on each remodeling job

Led by Operation Home Improvement, more and more builders are turning to home modernizing as a source of extra jobs and extra profits. And many have discovered how much easier it is to sell remodeling when "Light for Living" is featured. General Electric's big new Builders' Package helps you make the most of this expanding market with Light for Living.

This Builder's Package contains complete lighting information, photos and practical plans for making any home more attractive and livable. It tells how to make rooms seem larger with valance or wall lighting, how to accent with downlights and spots, how to make outside areas more effective and usable. When you put this material to work, your customers get a complete remodeling job and you profit accordingly. What's more, you add immeasurably to your own reputation as a progressive authority on home modernization.



Progress Is Our Most Important Product

GENERAL ELECTRIC

Many builders have already bought this package and they've put it to work—profitably—making the modernizing field an excellent source of extra jobs, extra profits. Send for yours today!

The Whole Light For Living Story is in This New Builder's Package—Yours For Only \$1.00

- Builder's Book of Lighting
- How To Decorate and Light Your Home
- Lighting Recipes
- Outdoor Lighting
- Lighting Fixture Guide
- Wall Lighting Guide
- Dimming Systems
- Selling Sentences

CLIP THIS COUPON AND MAIL IT WITH \$1.00 TODAY!

General Electric Company, Large Lamp Dept. AB-10
Nela Park, Cleveland 12 Ohio

Please send me _____ Builder's kits at \$1.00 each.

NAME _____

STREET _____

CITY _____

ZONE _____

STATE _____

And, remember, General Electric bulbs are the heart of Light for Living!



Marvin Myer's Western Ranch Home has the "Custom-Built" touch of a ceramic tile double lavanity.



Builder Marvin Myer, of Auburn Construction Company, Rockford, Illinois, designed this popular \$16,000 house with many features normally found only in more costly homes: covered entry and hall foyer, and a family room.

Adhesive installation of the counter tops, walls and floor took less time—added vital customer appeal. The ceramic tile floor catches the feminine eye and translates quickly from "tile" to "easy cleaning and lasting beauty." This total effect is to help the builder close the sale *faster*.



P. William Nathan uses prefabrication and adhesive techniques to put more sales punch in his homes.

Builder Bill Nathan of South Norwalk, Connecticut, uses prefabrication and precutting plus a family-room plan to attract metropolitan New Yorkers to his homes in the suburbs. His \$26,000 family-room homes are situated on wooded one acre sites.



The adhesive method was used to apply ceramic tile to the bathroom walls and in the inviting shower enclosure. Alert use of progressive new techniques like prefabrication and adhesive installations help to sell homes at a fast—and profitable—rate.

3 Big Reasons why Leading Builders Install Ceramic Tile

- 1 **CERAMIC TILE** sells more homes. Eagle-eyed 1956 home-buyers look for and expect ceramic tile. National advertising, word of mouth and traditional acceptance have presold it to millions.
- 2 **CERAMIC TILE** gives the home-buyer what he wants today—*more* for his money. Tile provides luxurious convenience and easy maintenance. It's durable, beautiful. Keeps the homeowner satisfied for a lifetime. Ceramic focal features like these bring the traffic in and nail the sale: floors, walls, drainboards, counter tops, window sills, foyers, halls, towel niches, rangebacks and splashbacks.
- 3 **CERAMIC TILE** installations cost the builder *less* with advanced new adhesive techniques. Tiles can be set faster and easier. That means you can offer more tile "showplace" areas at lower cost. The adhesive method gives you an additional tool for tapping today's terrific remodelling market.

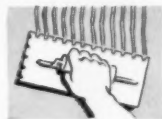
Be sure to ask your ceramic tile contractor about the savings made possible by adhesive installations.



Use only adhesives bearing this seal—signifying that they meet minimum performance standards set by U. S. Department of Commerce.

How adhesive installations cut your tiling costs

Mastic bed on dry-wall cuts
down preparation time and
costs.



Tiles are set quickly and
easily on mastic bed.



Job clean-up time is
held to minimum.



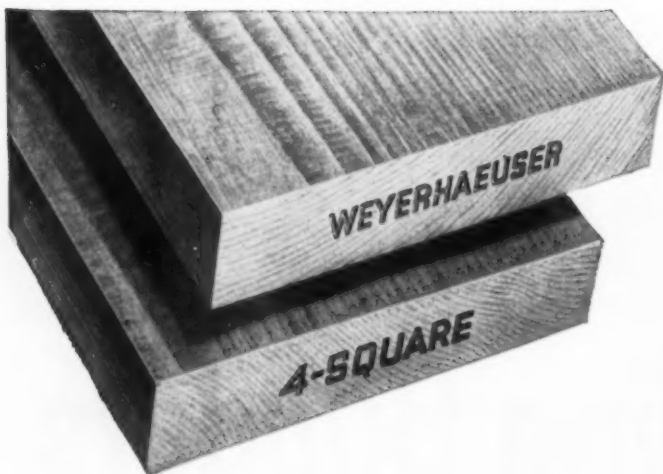
The Modern Style is

TILE COUNCIL OF AMERICA, INC.

Room 3401, 10 East 40th St., N. Y. 16, N. Y. or Room 933, 727 W. 7th St., Los Angeles, Calif.

PARTICIPATING COMPANIES: American Encaustic Tiling Co. • Architectural Tiling Co., Inc. • Atlantic Tile Mfg. Co. • Cambridge Tile Mfg. Co. • Carlyle Tile Co. • Dover Ceramic Co. • General Tile Co. • Gladding, McBean & Co. • Jordan Tile Mfg. Co. • Mosaic Tile Co. • Murray Tile Co., Inc. • National Tile & Mfg. Co. • Olean Tile Co. • Pomona Tile Mfg. Co. • Ridgeway Tile Co. • Robertson Mfg. Co. • Royal Tile Mfg. Co. • Sparta Ceramic Co. • Stylon Corp. • Stylon Southern Corp. • Summitville Tiles, Inc. • United States Ceramic Tile Co. • Winburn Tile Mfg. Co.

CERAMIC
tile



Announcing
an important
new development...

Water-Repellent

Treated Siding

Water-Repellent treating extends paint life—
improves siding stability

●Now, after extensive research, Weyerhaeuser presents a new, improved siding with all the beauty and durability of natural wood—plus a water-repellent treatment which results in better performance, and longer paint life.

The new Weyerhaeuser 4-Square water-repellent Treated Siding is the same as traditional siding in appearance. But a special treating process fills the walls of the surface cells of the wood with a water-repellent chemical.

Most important to home builders is the fact that paint lasts longer on Treated Siding. Water-repellent treatment helps prevent water entering behind siding, thus providing longer paint life. Treated Siding also resists the damaging effects of casual exposure to water during construction and prior to painting. Water-repellent treating adds stability to siding as it

retards moisture changes. The treatment also deposits chemicals which resist the development of mold and fungi.

Paint not only lasts longer, it is easier to apply on Treated Siding. The oils in the paint are absorbed slowly. The paint gives added protection because more of its oils are kept on the surface, where they are most valuable for resisting the damaging effects of weather.

Treated Western Red Cedar and West Coast Hemlock Bevel Sidings are now available in the standard widths and thicknesses.

Weyerhaeuser 4-Square water-repellent Treated Siding offers distinct advantages to builders and owners. For complete details about these fine products it will pay you to talk to your Weyerhaeuser 4-Square Lumber Dealer—or write to the St. Paul office for full information.

Weyerhaeuser Sales Company

ST. PAUL 1, MINNESOTA



**ENTIRELY NEW
AND WONDERFUL
WAY TO ENCLOSE
BATHTUBS**

*a sliding, folding
tub-shower door!*



NEW FOLDING TUB-MASTER SLIDES SMOOTHLY, QUIETLY for luxurious showering. Translucent doors let in plenty of light, keep out drafts. The bar that fastens enclosure forms a handy towel rack.



TUB-MASTER IS MADE WITH HIGH-IMPACT DYLENE PLASTIC. Can't shatter or splinter...has no sharp corners to cut or scratch. Panels fit snugly into polished aluminum frame; won't warp or deteriorate.



TUB-MASTER FOLDS BACK AND STAYS OUT OF THE WAY for bathing children or washing bathtub. By-passes for easy entrance to tub; closes completely for shower. Dries immediately. Cleans like a breeze.

Cleaner than a shower curtain • Safer than glass • Lovelier than either!



CAN BE INSTALLED QUICKLY
Tub-Master comes complete in one package...is easy to lift and handle.

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NEW CASTLE PRODUCTS, INC., NEW CASTLE, INDIANA • MANUFACTURERS OF MODERNFOLD DOORS

Now—a really exciting innovation to increase the saleability of your houses—the most convenient bathtub enclosure ever made! MODERNFOLD's new Tub-Master has every desirable feature that home-buyers want in a custom-made bathtub enclosure; eliminates everything they don't want. (These photos just start the list!) And there's absolutely nothing else like it for

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Tub-Master comes in beautiful decorator colors that go clear through—won't fade, mildew, chip, flake or peel. It increases the value of the homes you build...helps merchandise them. Call a MODERNFOLD Distributor, he is listed under "Doors" in the classified directory. Or send coupon for complete information.

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pending

modernfold
DOORS

New Castle Products, Inc.

Dept. K21T, New Castle, Indiana

Please send complete information on new MODERNFOLD Tub-Master.

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“We’ve built up our Ford Fleet to 31 money makers in just 7 years”

says California Housing Development Contractor

“Last year we installed plumbing in 4,000 homes in new housing developments,” says Mr. Larry Gluck, The Gluck Company, Van Nuys, California. “This means tough driving over unpaved development tracts. Our Ford fleet, ranging from F-100’s to C-700’s, takes the job in stride and saves us money, too. Low running costs, less maintenance and repairs . . . are why we’re aiming for an all-Ford fleet.”

Ford trucks cost less . . . last longer. The men who buy trucks every year must take everything into

consideration: low initial price, modern engine design for low oil and gas consumption (no other manufacturer can match the economy of Ford’s Short Stroke engines), rugged chassis for longer life (insurance experts prove Ford trucks last longer), and high resale value.

So—from pickups to 65,000-lb. GCW Big Jobs, the big fleets are going Ford. See your Ford Dealer today! Buy with confidence, drive with confidence, and save with confidence.



F-500 loading in Gluck Company's yard.
GVW 15,000 lb. Choice of two gas-saving
Short Stroke engines, 133-hp Six or 167-hp V-8.



**"Fords last longer
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Ford's rugged chassis and Short Stroke engine design mean longer life. Because piston travel has been reduced, there is less friction—resulting in longer engine life. New 8-foot box on Ford's F-100 pickup offers more cubic capacity than any other half-tonner . . . more load-space for your money.

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Do You Pay For Kindling When You Sheathe A House?

You can waste up to 25% of your sheathing dollars when you use wood sidewall sheathing. With Gold Bond Gypsum Sheathing the waste usually runs less than 3%!

Here are the **FACTS ON SHEATHING WASTE** as found in the Building Estimator's Reference Book, published by Frank R. Walker Co.:

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Horizontal Application... You need to buy 120 ft. b. m. . . . **20% Waste!**

Diagonal Application... You need to buy 125 ft. b. m. . . . **25% Waste!**

You keep waste at a low 3% with Gold Bond Gypsum Sheathing because you use virtually *all of it!* No random lengths . . . no lap loss . . . no kindling!

You *save labor costs*, too! These large-size panels go up quickly and easily—in *half the man hours* required for wood sheathing! You need only half as many nails—one man can do the average small home in one day!

Gold Bond Gypsum Sheathing costs half as much as T & G lumber—and you need no building paper*! Check these Gold Bond extras: It resists fire...helps insulate...repels water...makes wind-tight joints...and adds structural strength under any exterior finish. For more information, write National Gypsum Company, Dept. AB-106, Buffalo 2, N. Y.

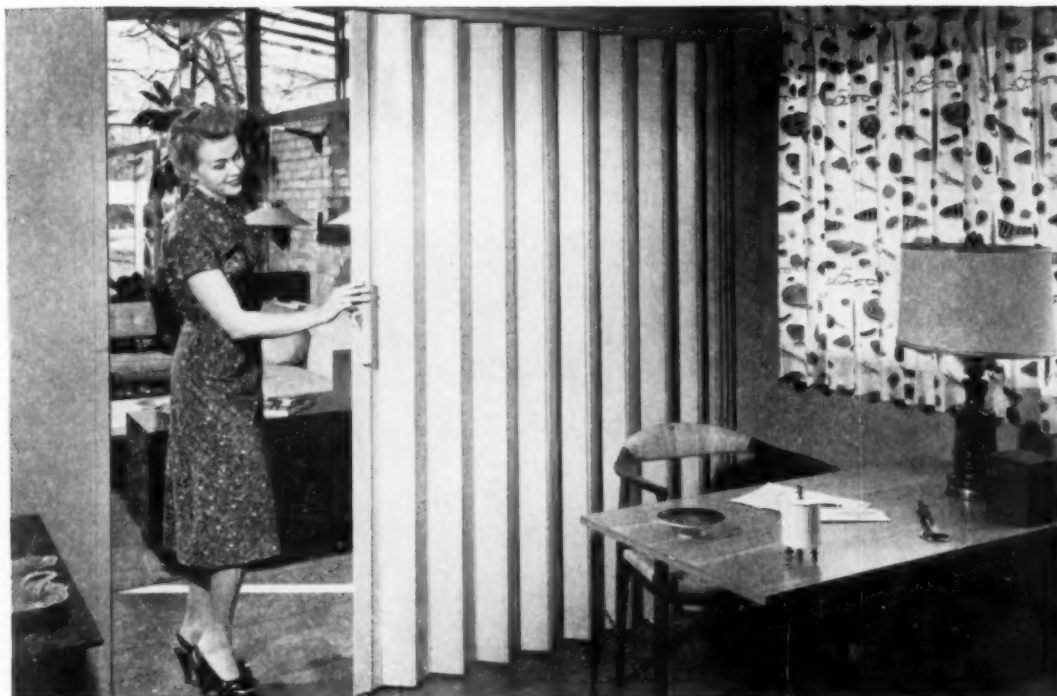
*Except where required by building regulations over all types of sheathing



NATIONAL GYPSUM COMPANY

GYPSUM SHEATHING

Gold Bond®
BUILDING PRODUCTS



ADD SALES APPEAL with *Pella*® wood folding doors

The exciting beauty of PELLA WOOD FOLDING DOORS makes a good impression on homeseekers! Richly veneered in oak, birch, pine or Philippine mahogany...the natural wood grain of PELLA DOORS blends perfectly with woodwork and furniture.

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The Calculator that Prints proves its business versatility with builders, too. The framework of this business continually expands and contracts as it takes on jobs; allows no room for bulky and expensive office machines . . . but a single compact "99" Calculator can handle *every operation*, whether checking material invoices, preparing estimates, figuring costs, even doing payroll computations . . . and *printed tape* gives

a permanent record for check-back on every operation.

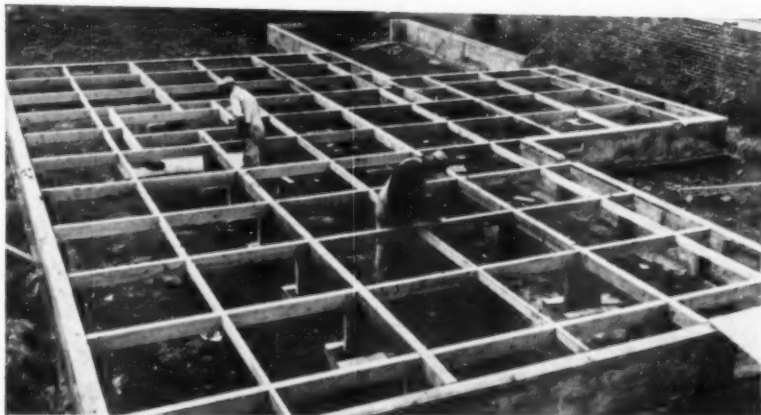
Your business faces many of the same needs for a Calculator, so may we suggest the very useful "99" as the *most economical* way of solving your business figuring problems.

Remington Rand
DIVISION OF SPERRY RAND CORPORATION



Building News

UNITED STATES PLYWOOD CORPORATION



Weldwood 2·4·1 plywood will be installed on this 48" o.c. "grid system." Once it's nailed in place, you're ready to lay finish flooring.

NEW 2·4·1 FLOORING SYSTEM SAVES UP TO \$500 PER HOUSE

Builder praises Stay-Strate as "most trouble-free door made"

The Stay-Strate flush door is "one of the finest doors we have ever used," says George Goldman, of the Manilow Construction Co., Inc., builders of the famous Highland Park Highlands, near Chicago. "It is true," Mr. Goldman continues, "that it has cost us a few dollars more per house as an original cost, but the savings in time and labor on subsequent complaints has more than made up for it." In fact, Weldwood guarantees the Stay-Strate® door will not warp or twist or it will be replaced—including all costs of hanging involved. See coupon.



Entrance way to one of Manilow's Highland Park Highlands homes shows Stay-Strate door, painted white, and attractive Weldwood Texture 1-11 paneling.

A new 1½" thick plywood panel is setting out to make building history. It's the new 2·4·1 panel—the combination subflooring and underlayment that you nail right to 48" o.c. supports. What a saving of time and money!

Continental Construction Company, of Seattle, Washington, reports savings of \$500 per house using the new 2·4·1 flooring system. Other builders report savings of up to 20¢ per sq. ft. of floor area.

And it's no cutting-corners trick. The new 2·4·1 system is definitely a quality operation. In fact, architect James W. Bickford of Seattle says: "I am especially pleased with this type of floor. It gives a very solid surface and you can lay carpeting, linoleum or oak right over it without underlayment. I think this type of floor is virtually ideal and I specify it in every design I possibly can." See coupon for more information.

Weldwood News and Notes

More than 650 builders have already entered the Weldwood Builder Contest . . . the big contest with over 100 prizes. (Top prizes are all-expense-paid trips to Europe via TWA.) All you have to do to enter is install one wall of Weldwood paneling in a model home and then use the paneling to help promote the sale of the home. Send coupon for complete rules and entry blank.

Going to paint plywood? Weldwood pine plywood is the best. Because it takes paint better than fir plywood, smart builders are ordering Weldwood pine plywood as their "painting grade" plywood. Available in all standard sizes and thicknesses . . . comes complete with famous Weldwood quality in every piece.

Duraply—the already famous overlaid plywood—now comes in a new form called Texture V-6 Duraply®. Panels are 4' x 8' or 4' x 10', v-grooved on 6" centers. Grooves are ⅝" wide and ⅜" deep. Texture V-6 gives the same pleasing effect as Texture 1-11 plywood and, in addition, it can be painted, while Texture 1-11 can only be stained. New Texture V-6 Duraply has all of Duraply's famous advantages: twice the wear-resistance of ordinary plywood; weatherproofness; provides a virtual end to checking; has a supersmooth surface to make painting easier. For more information, see coupon.

New literature available. A 4-page fir plywood guide designed for builders, architects and building code officials is now available from United States Plywood Corporation. The booklet contains complete specifications, installation data and recommended procedure for using fir plywood. See coupon.

READER SERVICE COUPON

United States Plywood Corporation
55 West 44th Street, New York 36, N. Y.

AB10-56

Gentlemen: Please send me the information checked below:

- | | |
|---|--|
| <input type="checkbox"/> 2·4·1 Flooring System | <input type="checkbox"/> Stay-Strate Door |
| <input type="checkbox"/> Weldwood Builder Contest | <input type="checkbox"/> Texture V-6 Duraply |
| <input type="checkbox"/> Fir Plywood Guide | |

Other information

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COMPANY

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CITY STATE

complete new Edwards promotional package

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Now Edwards helps you sell houses with a powerful selling tool *and* a complete plan to merchandise it! Edwards' Home Fire Alarm is an exciting sales feature, and it's backed up with a valuable, new, high-powered promotional plan to help you make the most of it.

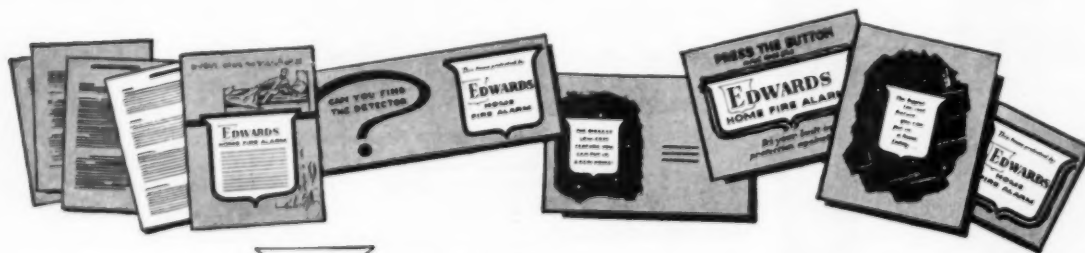
Look at what you get! First, there's the Home Fire Alarm itself, the most important low-cost sales feature you can put in a house. It's a complete, permanent fire warning system. Yet it can be completely installed for approximately \$30, depending upon local conditions. And if the house is planned to include it, Edwards' Home Fire Alarm may be covered in the FHA mortgage.

To help you merchandise this important feature, Edwards supplies you with an entire promotional kit! There's identification material to place outside

your model home, eye-catching signs for the interior, and handsome, colorful, free folders. You get a display demonstrator for impressive on-the-spot demonstrations. And Edwards gives you a whole package of publicity to get you extra public attention, including a home safety speech, newspaper releases, and radio and TV scripts.

Install the Edwards Home Fire Alarm system in your homes now. It's a strong competitive selling tool everywhere it's used! For the full story on the Home Fire Alarm, contact your electrical contractor or write Dept. AB-10, Edwards Company, Inc., Norwalk, Connecticut. (In Canada: Edwards of Canada, Ltd., Owen Sound, Ontario)

And remember the Edwards Zonalarm for larger homes... warns when fire occurs, tells its exact location.



EDWARDS

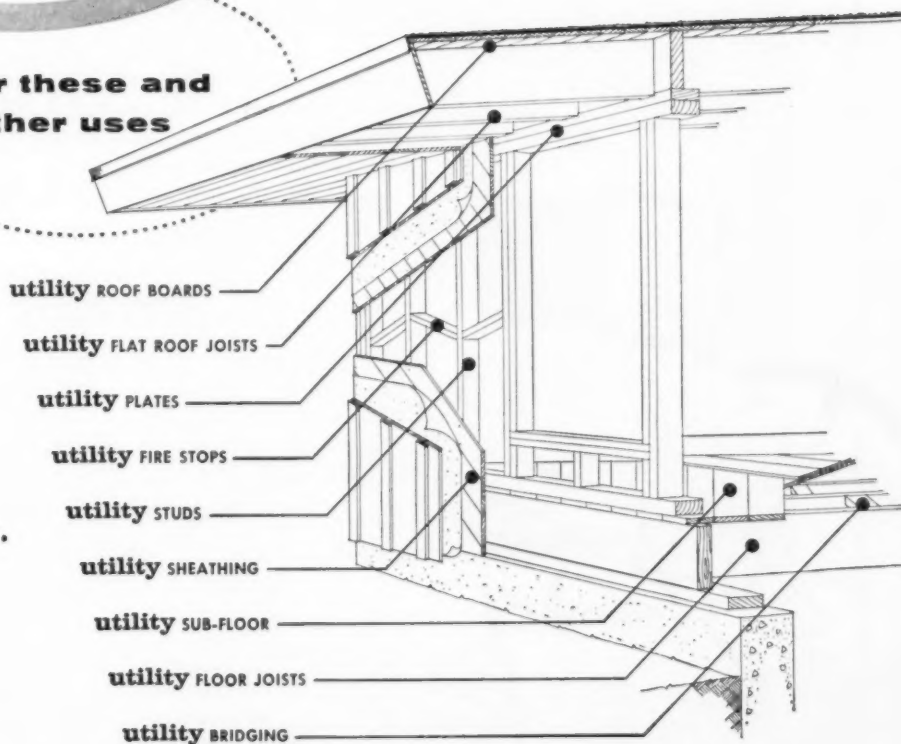
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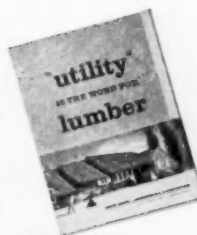
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utility grade LUMBER

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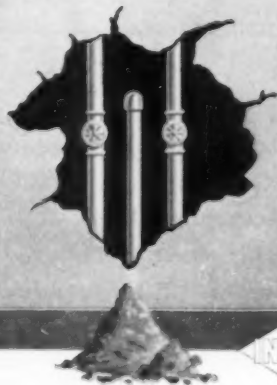
Milcor Steel Access Doors actually cost less than doors of wood made on the job. They come framed, primed — need no cutting, fitting, sanding or filling. They can't warp, crack, shrink or rot. Installed flush with the wall — you paint or paper right over them.

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1 Eight-plus cubic foot refrigerator with shelf capacity that allows food storage space equal to most ordinary 11 cubic foot refrigerators.

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mixed car shipments
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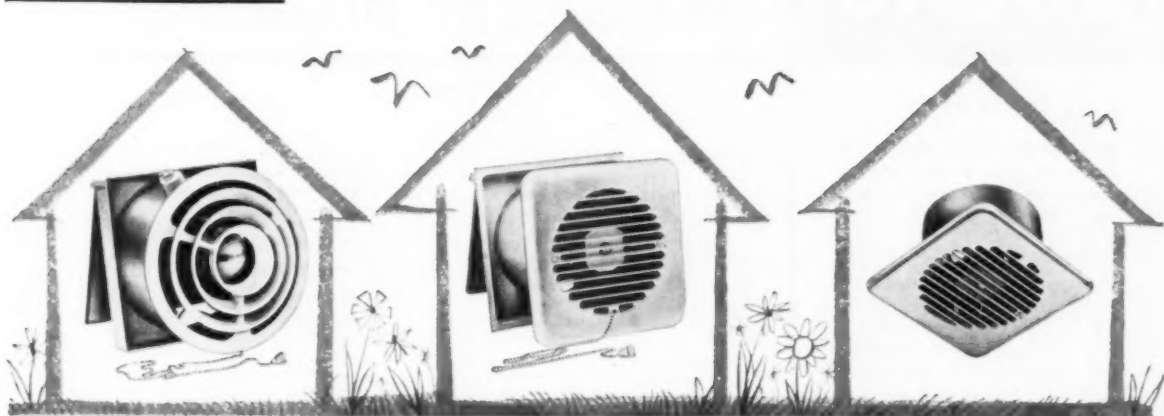
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The majestic, thunderous descent of giant pine, fir, cedar, hemlock — not to mention the hardwoods — is the beginning of *your* mixed car shipment. Felled in Long-Bell's tens of thousands of acres, single trees such as these may yield many items of lumber in sizes and grades that make up a mixed car.

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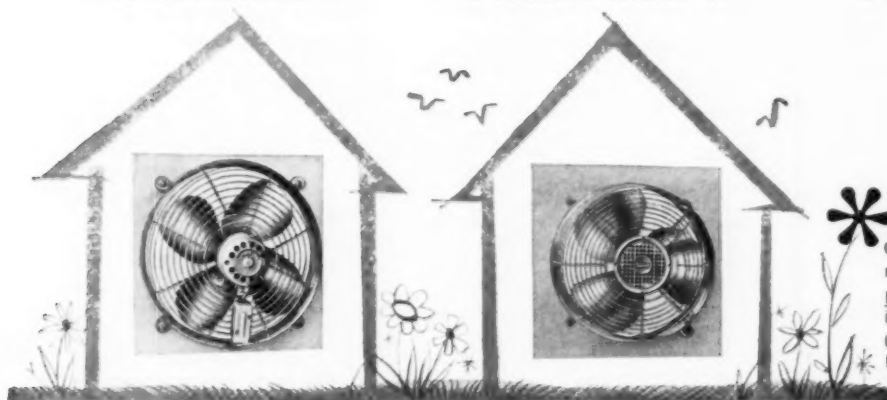
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KITCHEN . . . of course!

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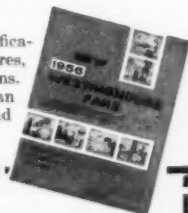
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THE BUSINESS LAW OF REAL ESTATE. Gerald O. Dykstra and Lillian G. Dykstra. The Macmillan Co. (New York) 1956. 852 pp. \$10.

This book is primarily a guide to assist builders and businessmen in transactions relating to the ownership and management of land. Every conceivable aspect of real estate is approached from a practical business viewpoint.

Current problems of acquisition of land for off-street parking, slum clearance, redevelopment, turnpikes and toll roads are effectively treated. It also includes many neglected subjects of practical value to businessmen and realtors, such as Trespass and Nuisance.

This book will not eliminate the need for legal counsel—but it will suggest precautions that may be taken so that legal counsel, when employed in time, has a more intelligent client. Matters of Nature and Classification of Property; Land and Estates Therein; Acquisition and Transfer of Title or Interest; Public and Private Restrictions on the Use of Land; Rights and Duties of Owners and Occupiers of Land; and Real Estate Brokers are carefully discussed.

The authors' 20 years of experience in the field contribute to the effective way in which the book is written. Gerald O. Dykstra is Professor of Business Law at the University of Michigan. Lillian G. Dykstra formerly taught business law at Ohio University.

APPLIED STRUCTURAL DESIGN OF BUILDINGS. Thomas H. McKaig. Dodge Books (New York) 1956. 444 pp. \$12.50.

Primarily a working tool, this practical manual is full of short cuts for solving structural design problems.

Every piece of data in the book has been tested. Tables, design methods and formulae, and sketches, help standardize office practice and simplify the designer's work.

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Clear explanations of how to take off from a set of blueprints and specifications a bill of materials for the construction of a frame house. Arithmetical methods of accurately estimating and cross-checking against mistakes. Suitable for use of small contractors and lumber dealers. Widely adopted as a textbook for students. 5th edition. Pocket size. 304 pages, 123 illus. 60 tables. (#105) \$3.75

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A working reference for builders, contractors, architects, building materials dealers, carpenters, and building construction foremen. Conveniently arranged for easy use. Among its complete coverage of topics are waterproofing, building stones, fireproofing, paperhanging, plumbing, heating and ventilation, electric wiring, hydraulics. Has glossary of engineering, architectural, and trade terms. 1,640 pages. 544 illus. (#103) \$9.95

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Points out rights and liabilities and the more common trouble spots in construction, engineering, and architectural contracts and in general how to protect your interests when entering into a contract and how to avoid legal difficulties. 5½ x 8. 453 pages. 1956. (#107) \$6.00

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by Herbert R. Waugh and Nelson L. Burbank

A dictionary which includes also architectural symbols, plumbing symbols, pipe fittings, geometric figures, and an illustration of the 100 principal parts of a house. 421 pages. Illus. (#110) \$5.00

Building Estimators' Reference Book

by Frank R. Walker

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REINFORCED PLASTIC PANELS are amazingly strong, rigid and damage resistant. They actually compare favorably with steel—yet are wonderfully light in weight. Laminates of glass fibers and polyester resins, they are impervious to corrosion and resistant to temperature or weather extremes. Reinforced plastic panels, corrugated or flat, handle as easily as wood or other building materials. Their

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PLASTICS IN CONSTRUCTION is the subject of study for the Monsanto Structural Plastic Engineering Group. Check with this group about the usefulness of reinforced plastics in your planning.

A NEW REPORT, "Plastics in Housing," has recently been published by the Department of Architecture of The Massachusetts Institute of Technology. The M.I.T. study was made possible by a Monsanto grant-in-aid. Copies are available at \$2.00 each. Address Monsanto Chemical Company, Plastics Division, Room 1303, Springfield 2, Mass.

Monsanto does not manufacture polyester reinforced panels. Monsanto does, however, supply the basic ingredients, styrene monomer, phthalic anhydride and maleic anhydride for the polyester resins used in molding reinforced plastic panels.



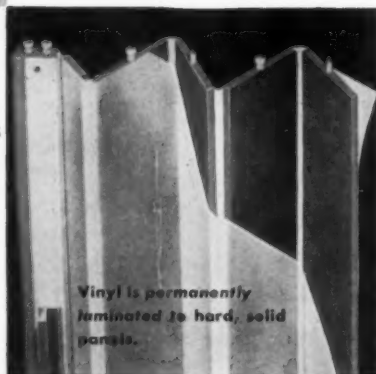
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...the first pre-framed glass-louvered jalousie!

Nova again leads the field with its top-quality Nova Jalousie, already installed in a wood window frame, ready to place in the opening. In new construction or in the replacement of old-fashioned windows, this means important savings in installation costs.

Here, for the first time, jalousies fit standard window openings. You get a complete package—including the jalousie, glass, screen and wooden frame—all contained in a special crushproof carton for safe delivery. The #1 White Pine frame has filler pieces on the inside. If the jalousie is used with dry-wall construction, simply pull the four filler strips off—if with plaster, leave them on.

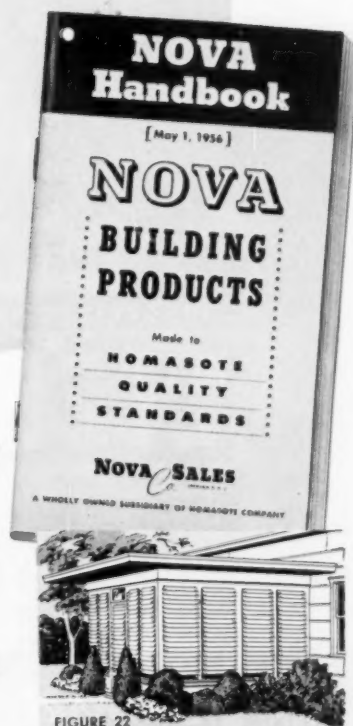


Nova Jalousies dignify and beautify the low-cost house and are naturally "at home" in any residence. With Nova you get top quality. Jalousies generally are made to meet price competition—which necessarily causes some sacrifices in quality. Nova Jalousies, whether pre-framed or KD (knocked-

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The new 68-page Nova Handbook gives the **know-how** on every type of jalousie. Details of construction are fully illustrated. There are instructions on how to figure sizes of individual windows, as well as on how to build complete porch enclosures—with the new levellers that automatically take care of out-of-level porch floors. The Handbook tells how to eliminate wood bulkheads and plumb up walls—and describes Nova Wood Jalousie Doors and the All-Aluminum combination screen and storm doors.

Send for your copy of the new Nova Handbook today. In this building manual you also get complete information on how to waterproof basements or treat brick and masonry surfaces—on Novafold Plastic Folding Doors—on Nova Shakes—and on the new 4' Novapanel, for quick application of cedar shakes. There is no cost or obligation. Kindly address your inquiry to Department K-10.



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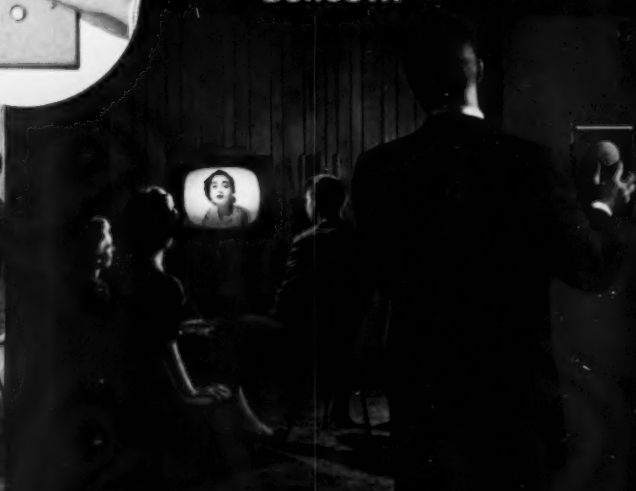
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Bridge...



Television...

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Yes, now you can give your customers **something more** ... for considerably less than you'd probably figure!

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By the turn of a LUXTROL dial, you ... or prospective home-owners ... can dim or brighten a room to any imaginable level of light. **From dark to full bright. From bright to dark.**

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Please send me full design data on new LUXTROL Light Control ... and the names of electrical contractors in my area.

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Here's exciting new variety for the bathrooms you install!

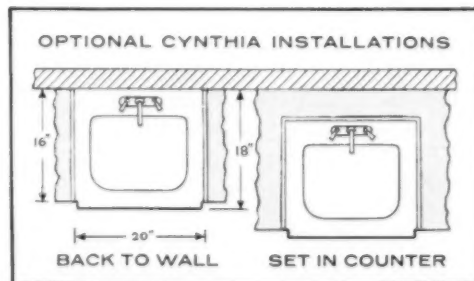


New **ELJER** Cynthia can be installed
in any counter . . . 16 inches or deeper

Eljer's graceful Cynthia lavatory meets every design need for countertop installations. Mount it back to the wall in a 16-inch-deep counter with side mounting strips. Or set it in a deeper countertop . . . and trim with a U-shaped rim.

The Cynthia is made of vitreous china. It is noncorrosive and will resist the effects of all ordinary acids. It is available in white or six lovely pastel shades . . . and color-matched to other fixtures in the popular Eljer line. Features concealed front overflow and integral soap dishes.

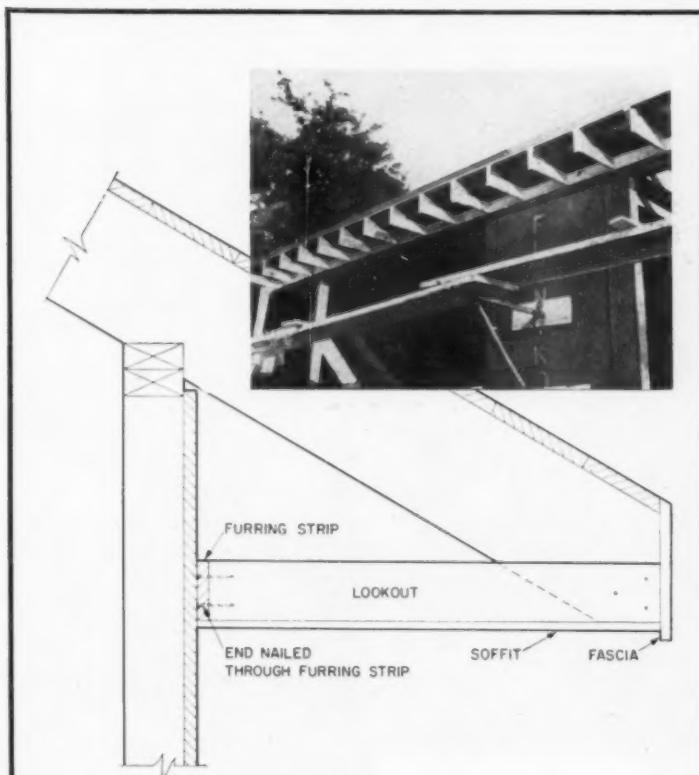
See your plumbing contractor for full information. Or write: Eljer Division of The Murray Corporation of America, Three Gateway Center, Pittsburgh 22, Pa.



ELJER

DIVISION OF THE **MURRAY** CORPORATION OF AMERICA

THE ONLY NAME YOU NEED TO KNOW IN PLUMBING FIXTURES



Material-saving method for framing soffits

This method of framing for a soffit should prove valuable where great rigidity is desired, or where the soffit itself is not sufficiently strong to hang without some sort of framing. Chief advantage is its use of low cost material, and very little of that.

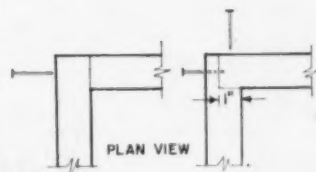
First, lengths of 1 x 8 sheathing board are ripped down the middle; the resulting 1 x 4 will be the material used.

The longer lengths of board are marked off to correspond with the on-center measurement of the rafters. These will form the furring strips, shown in the drawing. The rest of the

1 x 4 is then made into outlookers, a little short of the rafter ends so they won't interfere with the fascia.

The strips and the outlookers are then laid out on the ground, with the outlookers at right angles to the furring strips and at the marks which are made previously. The outlookers are then end-nailed through the furring strips as shown, making what looks like a giant wooden comb. A line is snapped, the comb nailed up, and the outlookers nailed to the rafter ends, forming the soffit frame.

R. Bried, Fairfield, Conn.



Neater corners for fascias

It is often desirable and economical to use 2 x 8 or 2 x 10 timbers as fascia stock where a combination of structural strength and finish is required. The builder can borrow the joint shown above from the cabinet maker to make the corners of such fascia neater and stronger, with much less chance of the pieces pulling away from each other.

The cut itself can be made with a hand power saw, either by making numerous cuts across the wood, or by making two right angle cuts of different depths. In either case, a neat joint can be made by finishing with a chisel.

Louis Hamill, Seattle, Wash.

Spray gun nozzle cleaner

An ordinary mechanical lead pencil with the lead removed, and an old sewing machine needle can be made into a handy cleaner for

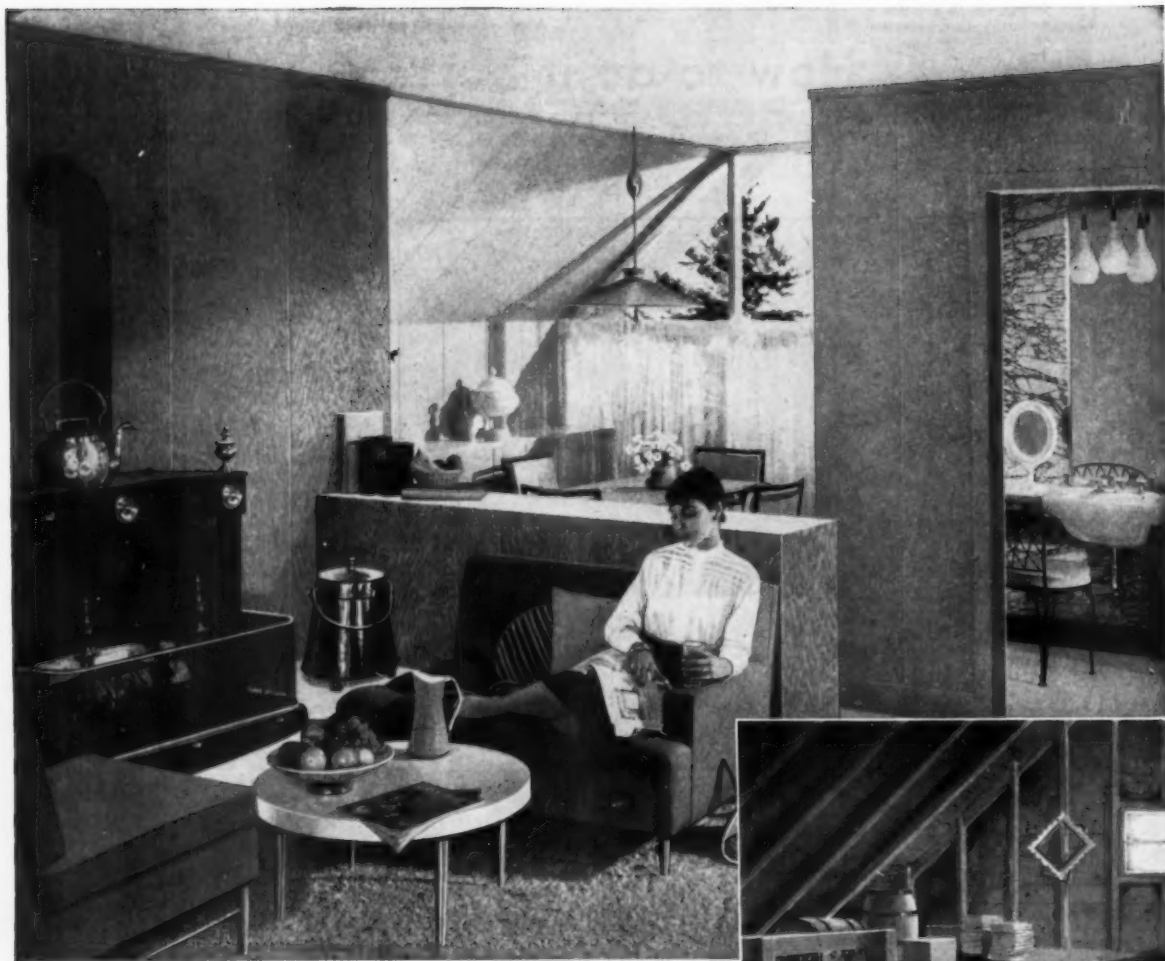
(Continued on p. 231)

Can you do it better?

SEND US . . .

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- A simple sketch
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You are American Builder's main source of better building methods, so send us your ideas. Good sketches are most important; a free hand drawing is fine so long as it's clear. If we publish your idea, we'll send you \$25 for your trouble. Mail contributions to: American Builder, 30 Church St., New York 7, N. Y. Sorry, but contributions cannot be returned.



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Multi-billion dollar residential remodeling market offers bigger-than-ever opportunities to builders and architects. Marlite paneling helps you cash in on these opportunities. Marlite is ready-made for alterations, additions, and structural improvement jobs . . . cuts installation time . . . reduces "in place" costs . . . provides more customer satisfaction.

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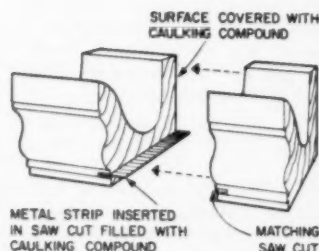
MARLITE IS ANOTHER QUALITY PRODUCT OF MASONITE® RESEARCH

How to do it better . . .

(Continued from page 229)

paint spray nozzles. The needle is broken off short and inserted in place of the lead in the pencil. It is stronger and sharper than wire, and will not bend.

Ernest Miller, Lansing, Mich.



Leak insurance for gutters

Wherever two pieces of wooden gutter are butted or mitred together, there is a strong probability that a leak will develop during the life of the house. Here is a way of joining that should minimize this chance. While galvanized steel would work, copper or aluminum, being rust-proof, will last longer.

J. O. Baker, McKeesport, Pa.

Gentlemen:

Your August, 1956 issue of *American Builder* carried a letter . . . suggesting an abrasive cutting wheel should be notched around the edges when it became glazed. Supposedly, this operation would allow the blade to "retain its original speed."

The publishing of the letter in *American Builder* gives the impression that all abrasive blades when used on cinder blocks or masonry glaze over. Actually, the problem is one of using a blade too hard for the material. The solution is not only costly, but dangerous . . .

In our 20 years of experience, as the manufacturer who created and developed masonry cutting, we have learned that direct assistance to the users of abrasive blades, with up to the minute blade recommendations, is the best method to enable these users to get the right blade for the job. . .

Sincerely,

Dan Lowery, Advertising Mgr.,
Clipper Manufacturing Co.

OCTOBER 1956

with Arco Shadow Texture checking doesn't bother

General Homes...

FORT WAYNE, IND.



ANY BUILDER CAN TAKE ADVANTAGE OF PRACTICAL PLYWOOD INTERIOR CONSTRUCTION

Take a tip from a well-known pre-fabricated homes manufacturer...General Homes. Use plypanel, grade A-D, for interior walls or built-ins, and spray-apply Arco Shadow Texture Wall Finish.

As a finish coat, or base for flecking, this heavy-bodied paint bridges and conceals knots, boat patches, grain irregularities and checking . . . dries to a uniform flat sheen and color. One coat satisfies F. H. A. requirements.

Try plypanel—with Arco Shadow Texture Finish. Or for gypsum board . . . roller, brush or spray applied . . . specify Arco Ripple Texture Wall Finish.



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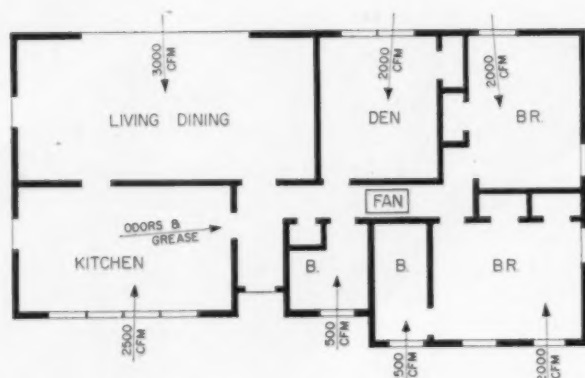
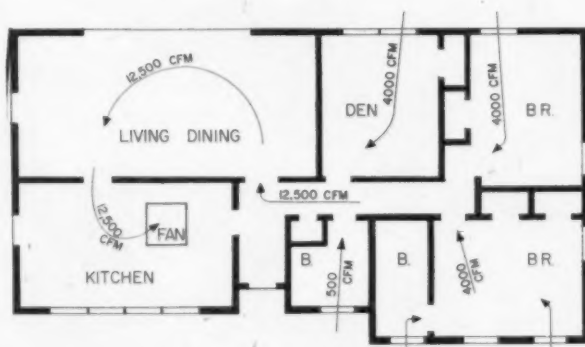
▶ Planning
Framing

▶ Roofing
Wiring

▶ Concrete Work
Air Conditioning

▶ Heating & Plumbing
Power Equipment

▶ Insulation
Interior Finish



Attic fan: where does it operate efficiently?

QUESTION: I have difficulty in convincing my clients on the idea that an attic fan works better in the kitchen than in the hall. For one thing, it exhausts the warm air from appliances. Also it confines odors to the kitchen. Do you concur with me? What reasons can I advance?

J. W. Cauthen
Augusta, Ga.

ANSWER: Fans are ordinarily placed in a central location such as the hall so that they will not have to pull air through the whole house. Your second plan is therefore more efficient than the first. More uniform air circulation is obtained by hall placement. Kitchen odors should be taken outdoors rather than into the attic. This is best done with an additional fan.

Tree flashing

QUESTION: We have a job where the customer wants a tree enclosed in a flat roof. We would like to know what material to use and what method of flashing is best.

Erwin E. Fabel
Wheaton, Minn.

ANSWER: We suggest you use zinc or copper flashing. Slit the bark of the tree and insert the flashing under the bark, using tar or roofing cement as an adhesive.

Sway braces for apartment

QUESTION: I have a 60 x 30 two-story apartment which sits on three rows of pilings that are twelve feet high. How can I prevent it from swaying in a strong wind?

J. Brown
Audubon, N. J.

ANSWER: Start by placing 1 x 6 diagonal braces at all four corners of the building. If this doesn't stop the movement, then brace the pilings in the same way. Use 2 x 6's in the latter case.

Wet paint pops up again

QUESTION: We take issue with your answer in the August "Ask the Experts" column in which you say there is no such thing as a wet paint. For your information, Koton and other paints have been established by scientific tests and approved by the American Hotel Association. The basic resin ingredients were developed 30 years ago on the continent and have proven durability . . .

Embree Mfg. Co.
Elizabeth N. J.

We are distributors of Nu-Dri, which may be applied to either wet or dry surfaces. Nu-Dri is a waterproof sealer with an aluminum flake base . . . Cardinal Bldg. Materials Co. Evansville, Ind.

ANSWER: Nuff said . . . Lab and testing data available to those still skeptical.

(Continued on p. 234)

GOLD BOND ALUMINUM LOUVERS

LONG-TERM LIFE INSURANCE FOR EVERY HOUSE YOU BUILD

Houses that "breathe" well through every season are protected against the destructive work of condensation, dampness and heat-accumulation. Gold Bond Aluminum Louvers and Ventilators are available in a variety of sizes and styles, designed to help you solve any house-ventilation problem.

Gold Bond's *Adjustable Louver* fits 4-12 through 12-12 pitch—a greater range than any other adjustable louver. It's an integrated unit—can't come apart. The *Fixed Louver*, with an exclusive design that gives permanent and rattle-free installation, is ideal for attic fans.

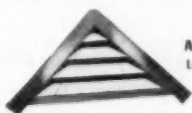
The *Flush Flange Type* is quickly installed in frame, brick or veneer walls. The

Recessed Flange Type needs no wall framing—built for your new construction or residing jobs.

Use Gold Bond *Roof Ventilators* for shingled roofs of any pitch...and supplement ventilation in roof or attic wall with *Wall and Under Eave Ventilators*.

Foundation Ventilators are available with or without dampers—they can replace a standard concrete block or be attached to ends of wood-joists in poured concrete foundations.

For more details on how Gold Bond's full louver line means full dampness-protection for you, write National Gypsum Company, Dept. AB-106, Buffalo 2, N. Y.



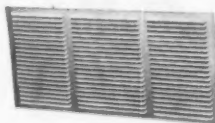
ADJUSTABLE LOUVERS—7 sizes up to 92" base, from 4 to 8 vanes.



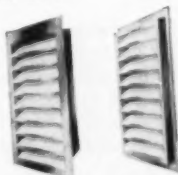
ROOF VENTILATORS—3 sizes. Fit shingled roofs of any pitch.



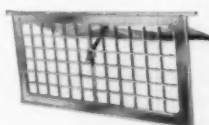
FIXED LOUVERS—4-12 pitch, 5 sizes from 7' to 12' base. 5-12 pitch, 6 sizes from 38" to 115" base.



WALL AND UNDER EAVE VENTILATORS—For under eaves, cornices or soffits.



FLUSH AND RECESSED LOUVERS—Flush—11 sizes up to 30" x 24". Recessed—7 sizes up to 24" x 30".



FOUNDATION VENTILATORS—Fit standard 16" x 8" block opening.



ALL louvers and ventilators furnished with FHA-required 8-mesh aluminum screen and formed from .025" aluminum except Foundation Ventilators which are die-cast aluminum.

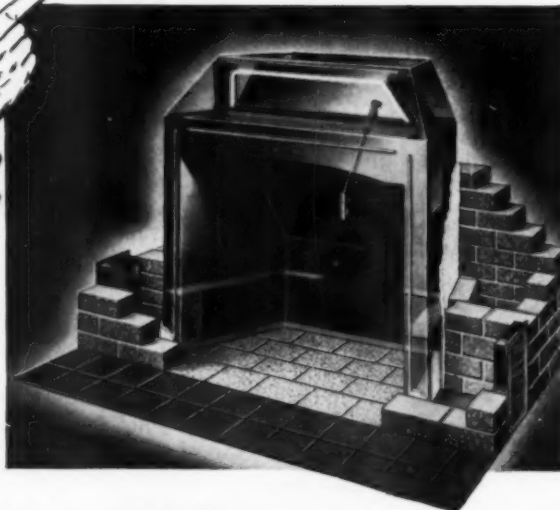
ALUMINUM LOUVERS AND VENTILATORS

NATIONAL GYPSUM COMPANY

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BUILDING PRODUCTS



"The Heatilator Fireplace will uphold your reputation as a dependable builder"



Home Owners Prefer It...

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The builder with a reputation to maintain won't risk it on anything but proved materials. He knows that the Heatilator Fireplace has been thoroughly proved over 30 years in 3 out of 4 homes with heat-circulating fireplaces—more than can be claimed by all other units combined. Here's why...

The Heatilator Fireplace Unit...

...has lived up to every sales claim made for it... there are more Heatilator Fireplaces in use to prove those claims than all other makes combined.

...has kept in step with progress over the years. It has been steadily improved for more efficient operation. It is the only unit specifically designed for today's modern homes.

...is the only fireplace unit with a positive **Pressure-seal Damper**. By sealing off the chimney air-tight, it eliminates costly loss of heat in winter and of cooled air in summer.

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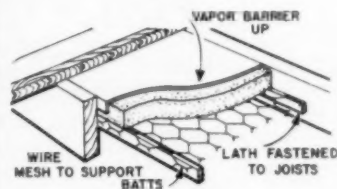
Ask the Experts...

(Continued from p. 232)

Floor board insulation

QUESTION: Is there any benefit from installing some type of insulation under the floor boards of a crawl space? What type do you recommend?

W. Rulon Lee
Corvallis, Ore.



ANSWER: Use either mineral wool or glass fiber insulation installed in the manner shown. Any tears in the vapor barrier should be repaired by adding an extra piece of barrier material. In place of chicken wire you can use building paper and wood strips to support insulation.

Foil on top of sheathing

QUESTION: I have seen aluminum siding being applied on homes around here. Does foil go over the sheathing first before the siding is applied? Or should I use a more vapor permeable building paper instead?

James Stockman
South Schodack, N. Y.

ANSWER: Foil is not absolutely necessary but it does add insulation and also acts as a good vapor barrier. It should be applied to the sheathing first, in the same manner as ordinary building paper.

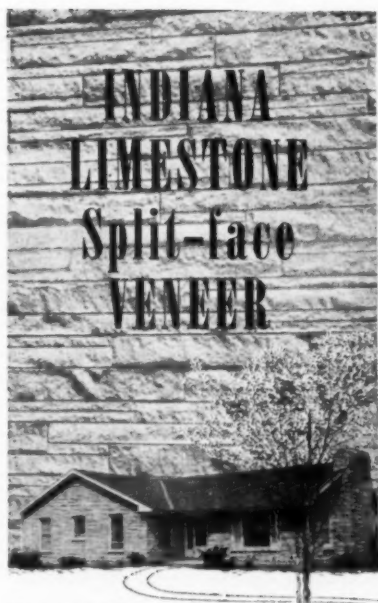
Floor spray to stop shrinking

QUESTION: Since my flooring was laid directly on joists without building paper, it is subject to considerable shrinking and swelling. It is sealed and waxed on the top side; I feel that if I sprayed the underside with a sealer it would help. What do you suggest?

Frank A. Helstrom
Endicott, N. Y.

ANSWER: By spraying a sealer (or spar varnish) you may be able to stop some of the shrinkage. But wood absorbs moisture through the end grain principally, which you could reach only partially with a spray coating.

(Continued on p. 236)



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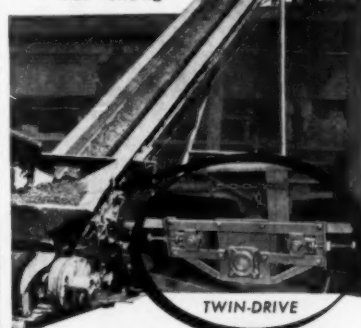
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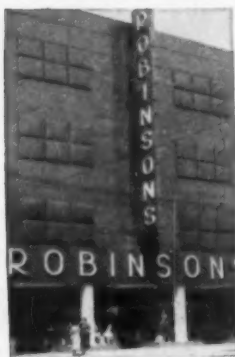
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Ask the Experts . . .

(Continued from page 234)

Bath house

QUESTION: Will a 12 x 60 concrete block bath house be large enough to accommodate from 150 to 200 bathers? Our local Lions Club is considering building one and would greatly appreciate any information you can give.

Elmer Jarvi
Ishpeming, Mich.

ANSWER: In our opinion this size is large enough, but the size of the locker must also be considered. You would be wise to consult a local architect for plans and specifications.

Wants insulation data

QUESTION: I am going to build a few homes in northern Florida for retired people. I am interested in an insulation that will not become infested with termites. What do you recommend?

Ernest Fairbank
Palos Park, Ill.

ANSWER: First make sure that termites can't reach the insulation. Use a good metal termite shield (not metal coated paper) and make sure that there are no vertical cracks in the shield. As for insulation, the aluminum accordion-fold type is recommended.

Terrazzo stains

QUESTION: We recently finished a terrazzo installation but were later informed that brownish cement stains were showing through. We would like to know what can be done?

Edward Fendt
Flushing, L. I.

ANSWER: It is very likely that you have either an asphalt, oil or tar base in your aggregate. Or it may contain iron which is rusting through. We suggest you contact the National Terrazzo & Mosaic Assoc., 711 14th St. N. W., Washington 5, D. C.

Got a problem you can't solve? Write and "ASK THE EXPERTS." In addition to American Builder's own staff, your questions will be answered by Joseph Steinberg, head, and Martin A. Stempel, instructor, of the Construction Technology Department of New York City Community College.

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CONVENTION CALENDAR... 1956

Oct. 1-7: Northeast Louisiana Home Builders, P. O. Box 2585, Monroe, La. Parade of Homes. Gene Rowe, chairman.

Oct. 1: Home Builders of Dallas County, 318 North St. Paul, Dallas. General membership meeting; Adolphus Hotel, Dallas. Herbert DeShong, chairman.

Oct. 3-9: Home Builders of Westchester, 151 East Post Road, White Plains, N. Y. Home show, Westchester County Center, White Plains. George A. Frank, exhibition director.

Oct. 19: Tucson Home Builders, 4897 East Speedway, Tucson, Ariz. NAHB Regional Mortgage Clinic

for Region 18 (Ariz. and N. M.) Pioneer Hotel, Tucson. Marvin H. Volk, chairman.

Oct. 20-28: Home Builders of N. W. Pa., 906 Commerce Bldg., Erie, Pa. Home Show; National Guard Armory. Charles G. Barney, chairman.

Oct. 21-25: Norman Home Builders Assn., 510 W. Comanche St., Norman, Okla. Home Show; Cleveland County Fair Bldg., Norman. A. Lloyd Caddell, chairman.

Oct. 25-27: Fla. Home Builders Assn., 409 Virginia Drive, Orlando, Fla. Annual convention and exposition; Hotel George Washington, West Palm Beach, Fla. 40 booths. E. D. Hedrick, chairman.

Oct. 25-Dec. 15: Home Builders of Palm Beach County, P. O. Box 667, Palm Beach, Fla. Parade of Homes; Village of North Palm Beach. R. M. McClintock, chairman.

Oct. 28-31: Home Builders of Georgia, 1701 Rhodes Haverty Bldg., Atlanta 3, Ga. Second annual convention and exposition; Atlanta Biltmore Hotel. Walter L. Tally, chairman.

Oct. 28-Nov. 4: N. J. Shore Builders Assn., 191 Main St., Manasquan, N. J. Co-sponsor, Monmouth-Ocean Lumber Dealers Assn. Home Show; Convention Hall, Asbury Park. Jerry Gasque, chairman.

Oct. 30: Home Builders of Maryland, 7 E. Lexington St., Baltimore 2, Md. Regional Mortgage Clinic for Md., Va., W. Va. and Wash., D. C. Lord Baltimore Hotel, Baltimore, 9:30 A.M. to 4:30 P.M. Jack B. Candler, chairman.

Nov. 4-11: Mid-Fla. Assn. of Home Builders, 409 Virginia Drive, Orlando, Fla. Parade of Homes; Tanglewood, Orlando. Rupert Rumpf, Jr., chairman.

Nov. 5-10: Grand Rapids Home Builders, 1565 Plainfield N., Grand Rapids, Mich. Do-It-Yourself and Building Improvement Show; Civic Auditorium. W. H. Blackall, chairman.

Nov. 6-9: Building Contractors of Calif., 1571 Beverly Blvd., Los Angeles 26. 33rd Annual Congress; Hotel del Coronado, Coronado, Calif. Ernani Bernardi, Harry Stewart, chairmen.

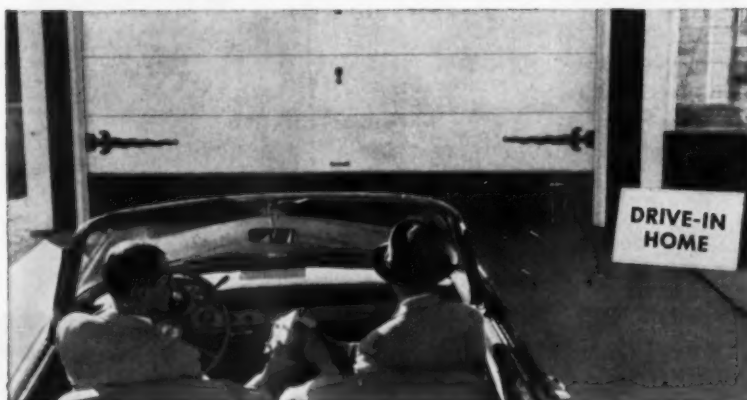
Nov. 7-11: N. J. Home Builders, Military Park Hotel, 16 Park Place, Newark, N. J. Convention; Claridge Hotel; Atlantic City. John S. Wright, manager.



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Manufacturers' news

Construction of new plants for expanded operations figure in the plans of four companies. Stylon Corp. has announced its fourth plant is being constructed in Wayne, N. J.; Armco Steel Corp.'s new plant is under way at Middletown, Ohio; Inland Homes Corp. is planning a new factory at Hanover, Pa. and has let contracts for two

expansions in Piqua, Ohio; and Woodco Corp. reports its new national headquarters for the E-Zee Loc division will be located in Jacksonville, Fla. . . Harbor Plywood Corp. has begun manufacture of its Harborite overlaid fir plywood in a new low cost grade.

Fourth annual convention of Architectural Woodwork Institute is slated for Chicago, Oct. 18-19 . . . Paul R. Rutherford has been named president of Clay Sewer

Pipe Assn., Inc., succeeding Maurice Maskrey, president since 1947 . . . Leonard Kirsten has been appointed director of public relations for Structural Clay Products Institute . . . Society of Plastics Engineers, Inc. will hold its 13th annual national technical conference Jan. 16-18 in St. Louis . . . Irving M. Herrmann has been elected president of the newly formed Midwest Job Galvanizers Assn.



Hottenroth



Feldmann

Hupp Corporation has elected Fred W. Hottenroth to the new position of vice president in charge of technical sales . . . Walther H. Feldmann executive vice president, Worthington Corp., has been elected a member of the board of directors . . . Grover P. Manderfield has been promoted to vice president of Woodbridge Clay Products Co. . . Pittsburgh Plate Glass Co. has appointed Richard P. Bell as assistant to the president . . . James A. Sloan, son of the founder of Sloan Valve Co., has been elected president, succeeding Irving H. Russell.

Frank J. Finn has been appointed manager of the Salem plant of the Yale & Towne Manufacturing Co. which also has appointed Walter S. Maranuk manager of its Pittsburgh sales and service branch . . . Two appointments have been reported by Thor Power Tool Co. John P. Bank is now sales engineer and Richard E. James is manager of the company's new Indianapolis branch . . . New manager of sales, Eastern region for Stanley Hardware division of Stanley Works is John F. Bates . . . U. S. Steel Homes has appointed Phillip H. G. Lopatnikov manager of commercial research in its sales department . . . Appointment of John Parkany as market research analyst and James A. Costello as assistant advertising manager has been announced by the Formica Corp. . . . Thirty affiliates of Place Enterprises have named Ralph M. Hutchinson director of purchasing . . . Admiral Corp.'s new position of national sales manager, appliance division will be filled by B. H. Melton . . . Dwight R. Anneaux has been appointed to the new position of manager of special markets for Whirlpool-Seeger Corp.

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American Builder

KEEPING UP WITH THE LAW:

Unlawful to discriminate against building material



By JOHN F. MCCARTHY
Attorney-at-law

It is unlawful for municipal authorities to discriminate against the use of a particular building material. This was a recent decision of a Circuit Court in Michigan in a case entitled *University Custom Homes, Inc. v. Township of Redford*. There the material involved was gypsum wallboard.

Ordinance No. 30 of the Township of Redford, Michigan, made it unlawful for any building to be constructed where gypsum wallboard was used which contained less than 3/4-inch thickness. The apparent purpose of the law was to impede dry wall construction.

The University Custom Homes, Inc. presented plans and specifications, and asked for permits, for homes to be constructed with 1/2-inch gypsum board. The building commissioner of the Township of Redford refused to issue the permits, relying on Ordinance No. 39. Thus the litigation referred to followed.

Witnesses for the plaintiff included, among others, Rodney E. Lockwood, President of the Builders Association of Metropolitan Detroit and past President of the National Association of Home Builders, and Joseph P. Wolfe, Commissioner of the Department of Buildings and Safety Engineering of the City of Detroit and past President of the Building Officials Conference of America.

They testified that 1/2-inch gypsum wall board was adequate for the purpose and that 3/4-inch board was unnecessary.

They gave as their opinion, based on their experience, that it was safe from the viewpoint of public health and public safety.

The litigation was handled for the plaintiff by Irving H. Yackness, the Executive Vice President and General Counsel for the Builders Association of Metropolitan Detroit.

The Circuit Judge held that Ordinance No. 39 was unconstitutional and ordered the building permits that had been applied for to be issued. He observed that, on the basis of the testimony, the ordinance did not bear a reasonable relation to public health and public safety and denied gypsum wallboard the equal protection of the law. He said:

"... bearing in mind that an ordinance properly enacted is presumed to be constitutional, the Court very readily, from this record, is able to find that a requirement of 3/4-inch drywall construction is unreasonable, and that there is no substantial reason upon which to base that figure.

"The testimony preponderates in favor of a finding in this case, that 1/2-inch gypsum wallboard can be used with satisfactory results, if properly applied, and when the Court makes that finding—as the Court must in this case—it seems to follow that a requirement, a minimum requirement in excess of 1/2-inch is arbitrary and unreasonable.

"In other words, the Court finds that there is no reason or basis to classify the thickness of drywall construction as is done in Ordinance No. 39.

"The opinion of the Court is that Ordinance 39 in question, in its attempt to regulate drywall construction is arbitrary and unreasonable, under its present terms, and for that reason, the Court is of the opinion that it is unconstitutional, void and a writ of mandamus may issue."



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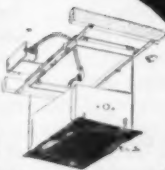
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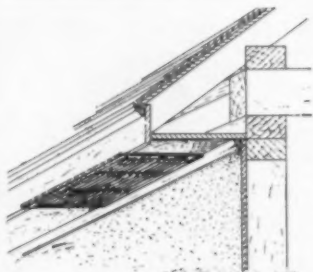
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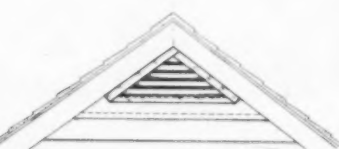
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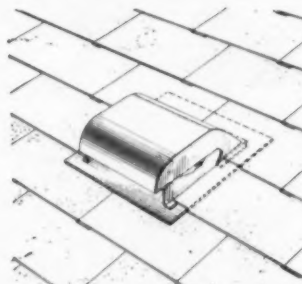
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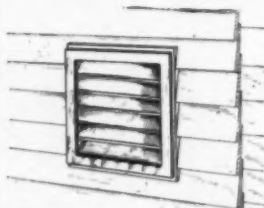
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Gable end ventilators are available in fixed pitch designs or may be obtained with an adjustable feature for any roof pitch.



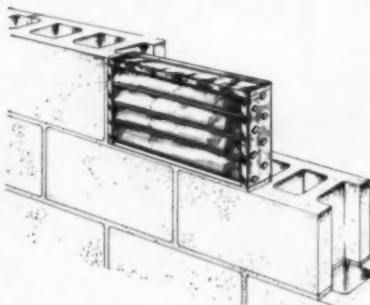
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Suitable for pitched roofs and available in aluminum or galvanized steel. Wide flange for adequate flashing.



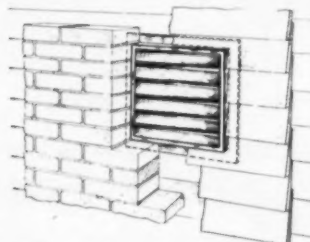
RECESSED TYPE ATTIC VENTILATOR

Primarily for new construction this ventilator has a projection flange which makes it adaptable to frame or masonry exterior finishes.



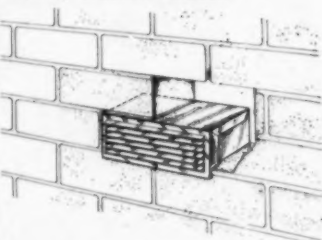
CEMENT BLOCK VENTILATOR

The perfect ventilator for cement block masonry as size of unit is 16" x 8". May also be used with brick masonry.



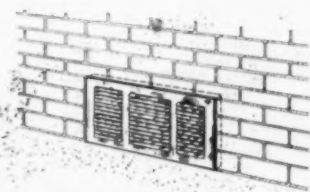
FLUSH TYPE ATTIC VENTILATOR

For new or remodeling this type ventilator fits over siding finish or may have wood surrounds.



BRICK VENTILATOR

Made the same size as a brick this ventilator has a free area of 13 sq. in. and is inconspicuous when laid in wall.



FOUNDATION VENTILATOR

Available with, or without, damper this ventilator fits 16" x 8" opening. Less than 1" thick a lintel is required.

Today's house, with its large glass areas and tight exterior construction, affords little opportunity for the house to "breathe." While progress in the building industry has brought improvements and conveniences, it has also developed problems inherent in proper and economical cooling, heating and ventilating.

Some of these problems can be eliminated effectively with adequate ventilation. The wide range of

metal ventilator louvers, with sizes and types for every purpose, are available to the builder, and if he follows the rules as outlined on these pages he will produce satisfactory results.

VENTILATION FOR SUMMER COMFORT

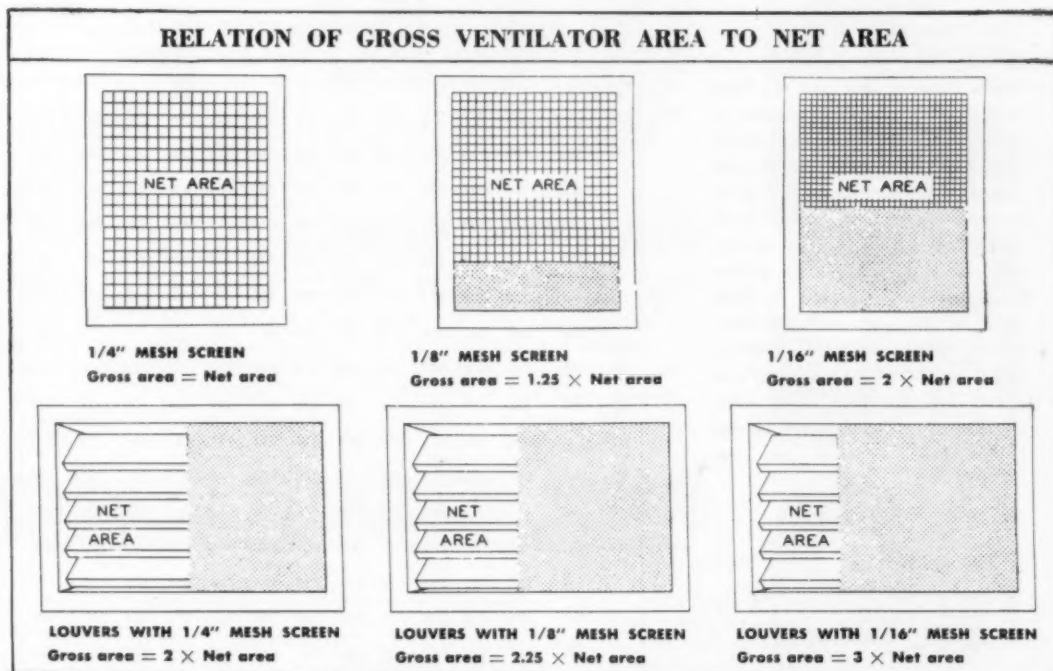
All insulated buildings should be provided with attic ventilation. In summer, proper vents let out the accumulation of air heated by the sun on the roof surfaces and thus

greatly increase summer comfort. Such vents, of course, should be above the insulation and should be open at all times.

Since hot air rises the ideal method of ventilating an attic space is to have the openings located both at the highest and lowest points of the space thus insuring a constant movement of air.

The sun radiates so much heat in summer that the outer surfaces of walls, directly exposed, may get as

know about ventilation



hot as 120° even though the surrounding air is much cooler. Exterior surfaces of roofs may reach a blistering 140° or even higher because they catch the sun's rays more directly than do vertical walls. A free circulation of air in the attic area is a "must" in order to permit the escape of hot air replacing it with cooler outside air.

VENTILATION FOR CONDENSATION CONTROL

Just as moisture will collect on the outside of a glass filled with ice water, so will walls and roofs collect moisture when water vapor passes through the interior finish materials of the home and condenses on the inner surface of the colder walls. Such condensation results in wet insulation, swelling of the sheathing, curling of the roof shingles, discoloration of interior finishes and exterior paint peeling.

Research has proven that this condensation problem can be controlled through the use of vapor barriers on the inside of the outside walls and by providing adequate ventilation in attic spaces. Ventilation is effective because warm air

carries more water vapor than cold air. Through ventilators this warm air can leave the house, conveying more water vapor, than is brought in by the cold air which replaces it.

CRAWL SPACES

Excessive dampness in crawl spaces can result either from leakage of rain inward, from the outside, or from condensation due to lack of air circulation on the inside of the dwelling.

Often a closed unheated home, in a warm climate, becomes damp on the inside. Weather changes contribute to this result. When a crawl is used without proper ventilation, the damp earth evaporates moisture which is carried upward and condenses on material in the upper part of the house.

Ventilator openings—at least four, one at each corner of the building—should always be used in crawl spaces so as to insure a free passage of air from the outside. These openings should be placed as high as possible in the walls for greatest efficiency. A good rule of thumb to follow is: two square feet of free area ventilation for every

one hundred feet of foundation wall.

VENTILATOR AREAS

To avoid confusion in the estimating of ventilator sizes a definite understanding should be made between "gross area" and "free area," or "net area."

The "free" or "net" area of a ventilator is the total unobstructed clear area of the ventilator through which the air can move. This area is arrived at when such obstructions to air, such as the louvers, screen or grilles have been deducted from the total area of the ventilator.

The "gross area" is the total area of the ventilator including louvers, grilles or screens—the solid material which obstructs the flow of air.

ACKNOWLEDGEMENT

Much of the data contained in this article was furnished by the Metal Ventilator Institute, 22 West Monroe St., Chicago 3, Ill. One of the objectives of the Institute is to develop a seal of approval which will clearly state the net free ventilating capacity of ventilators after all obstructions are accounted for.

FHA REQUIREMENTS

Provide cross ventilation for all spaces between roof and top floor ceiling with corrosion-resistant 8-mesh screened louvers as follows: **ROOFS WITH SLOPES 2 IN 12 OR GREATER**, 1/300th of the horizontal projection of the roof area over each space. One-half the required ventilation shall be in the upper part of the ventilated space as near the high point of the roof as practicable. **ROOFS WITH SLOPES LESS THAN 2 IN 12**, 1/150th of the horizontal projection area over each space unless a complete, continuous vapor barrier is provided, in which case use 1/300th.



HOW TO USE FREE AREA VENTILATION GUIDE

Using length and width dimensions of each rectangular or square attic space, find one dimension on vertical column, the other dimension on horizontal column. These will intersect at the number of square inches of ventilation required by FHA to provide 1/300th. Multiply this re-

FREE AREA VENTILATION GUIDE

Square inches of ventilation required for attic areas

WIDTH (IN FEET)	20	22	24	26	28	30	32	34	36	38	40	42
20	192	211	230	250	269	288	307	326	346	365	384	403
22	211	232	253	275	296	317	338	359	380	401	422	444
24	230	253	276	300	323	346	369	392	415	438	461	484
26	250	275	300	324	349	374	399	424	449	474	499	524
28	269	296	323	349	376	403	430	457	484	511	538	564
30	288	317	346	374	403	432	461	490	518	547	576	605
32	307	338	369	399	430	461	492	522	553	584	614	645
34	326	359	392	424	457	490	522	555	588	620	653	685
36	346	380	415	449	484	518	553	588	622	657	691	726
38	365	401	438	474	511	547	584	620	657	693	730	766
40	384	422	461	499	538	576	614	653	691	730	768	806
42	403	444	484	524	564	605	645	685	726	766	806	847
44	422	465	507	549	591	634	676	718	760	803	845	887
46	442	486	530	574	618	662	707	751	795	839	883	927
48	461	507	553	599	645	691	737	783	829	876	922	968
50	480	528	576	624	672	720	768	816	864	912	960	1008

quired ventilation by two for roof slopes of less than 2 in 12 without vapor barrier.

Remember — 1. Include overhang of roof area in measurement of attic areas. 2. At least 50% of the required ventilation must be in the highest part of the roof practicable. 3. Provide cross ventilation for each separate space.

All louvers manufactured by members of the Institute will bear a label certifying its correct ventilating capacity. The following manufacturers are members of MVI:

Air Control Products, Inc.
Appleton Supply Co., Inc.
Alabama Wire Co., Inc.
Home Comfort Mfg. Co.
Louver Mfg. & Supply Co.
N. H. Rudeen Co.
Lesle Welding Co.
Walter E. Selck & Co. of Canada
United States Gypsum Co.

RECOMMENDED SPECIFICATIONS

• The following recommendations of the Metal Ventilator Institute have been submitted to the Federal Housing Authority to be incorporated in the minimum housing requirements.

Attic or spaces between roof and top floor ceiling.

1. Provide effective cross ventilation for each separate space between roof and top floor ceiling by means of corrosion resistant screened ventilators.

A. All ventilators shall be designed to provide adequate weather protection under normal conditions.

B. All soffit or under-eave ventilating openings shall be provided with ventilators having adequate fins throughout the area of the ventilator running parallel to the adjacent side wall to resist water and snow infiltration.

2. Ventilation area

A. All ventilators shall bear the manufacturers or makers certification of the net free ventilating

area which shall remain affixed until after inspection. The net free ventilating area shall be the sum total of the orifices after all restrictions have been deducted.

3. Materials

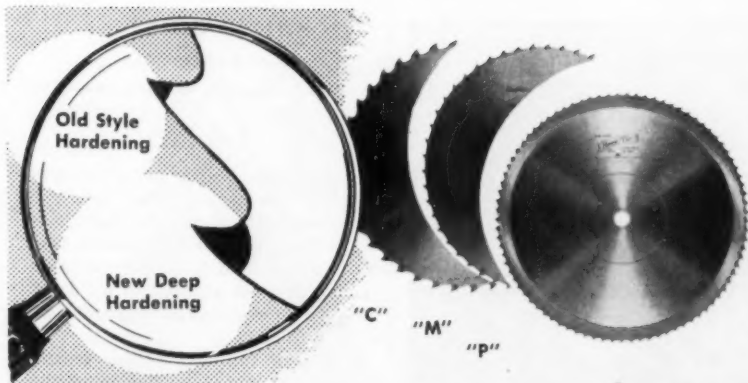
A. All materials shall be corrosion resistant.

B. All screening shall be 8 mesh per inch having a maximum wire diameter of .013

4. The net free ventilating area for each separate space shall be less than:

A. For roofs with slope 2 in 12 or greater, 1 sq. in. for each 2 sq. ft. of horizontal projection of the roof area over each space except as noted after "C" below.

B. For roofs with slope less than 2 in 12, 1 sq. in. per sq. ft. of
(Continued on p. 248)



the all New **DEEP HARDENED BEVEL SHARPENED HARD-TIP SAW BLADE**

the **HARD-TIP** saw blade that can be **RE-SHARPENED** in minutes . . . and saves you 50% to 60% on sawing costs. Stays sharp 5 to 7 times longer than conventional blades. **DEEP HARDENING** now gives you many of the qualities of an expensive carbide tipped saw. We also manufacture a complete line of conventional, carbide and special saws. Write for new catalogue #22.

C—combination saw M—cross cut and mitre P—planer

HEINEMANN SAW CORPORATION
CANTON, OHIO, U. S. A.

Fasten to Concrete IN SECONDS



Omark Hammer drive fastening tool sets hardened steel drivepins (headed or threaded) into concrete, mortar, concrete block and steel. All you need is a hammer!

It's this easy: Insert drivepin in tool, place tool against work surface and strike driving ram head 3 or 4 times with a hammer—fastening is made. It's strong and secure. Drives 32 sizes and types of pins. Call for a demonstration.

Attractive Dealerships Open
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TIMBERLOCK

SPLIT RING CONNECTORS and FRAMING ANCHORS

**engineered,
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**COST
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25% under standard prices. Excellent quality.

Extensively used in government and private construction. 2 1/2" and 4" I.D.



- Precision manufactured of 18 gauge zinc coated steel.
- Measures 4 7/8" high.
- Extra strength factors.

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F. D. KEES MFG. CO.
NEBRASKA

Write to P. O. Box 618
MARSH Division of

HOTSTREAM STONE LINED

Write for the most complete water heater catalog ever published—The Hotstream Heater Co.—Dent. A—2363 E. 69th St.—Cleveland 4, Ohio



Now...for less money

Put more cost-cutting, portable electric power on your jobs!

That power-packed Onan Model 205AJ on the construction site above, delivers 2,500 watts of A.C. power, enough to operate several electrical tools or floodlights simultaneously. Powered by an Onan 4-cycle gasoline engine, it has all the 4-cycle advantages of quick starting, long life and easy maintenance, *yet it weighs only 139 pounds*, and costs less per watt of output than any electric plant in its size range.

This model and others in the new Onan line, ranging from 500 to 10,000 watts, are all lighter in weight, more compact, and lower in cost than previous models. They are completely Onan built . . . powered by new, modern, short-stroke gasoline engines, direct-connected to Onan drip-proof all-weather generators.

Equipped with carrying frame, two-wheel rubber-tired dolly or trailer, these new electric plants can be taken anywhere . . . moved around easily on the job. Get all the facts on these new electric plants from your Onan distributor.



AK SERIES

500, 750, 1,500 watts A.C. 115 volts. 1-cyl. gasoline engine. 1,500-watt model weighs 132 lbs.

AJ SERIES

1,000, 2,500 watts A.C. 115 volts. 1-cyl. gasoline engine. 2,500-watt model weighs 139 lbs.



LK SERIES

2,000-watts A.C. 115 or 230 volts. 1-cyl. gasoline engine. Built for extra-duty service. Wt. 235 lbs.

CKK SERIES

3,500 and 5,000 watts. 115 or 230 volts. 2-cyl. gasoline engine. 5 receptacles. 5KW model weighs 390 lbs.



Electric Plants for every need—500 to 50,000 watts



Write for specifications on any series plant

D. W. ONAN & SONS INC.

2520 University Ave. S.E., Minneapolis 14, Minnesota

TECHNICAL GUIDE

(Continued from p. 246)

horizontal projection of the roof area over each space unless a completely continuous vapor-barrier is provided; in which case $\frac{1}{2}$ in. per sq. ft. of the projection of the roof area over each space is required except as noted after "C" below.

C. For roofs with slope greater than 2 in 12, at least $\frac{1}{2}$ of the required ventilating area shall be in the upper part of the ventilated space as near the high point of the roof as practicable.

Basementless spaces

1. No foundation wall vents are required for ventilating a basementless space one side of which, exclusive of structural supports, is open to a ventilated basement, provided the total area of ventilating openings in the exterior walls of the basement is at least 1 in. per sq. ft. of the combined area of the basementless space.

2. When the floor construction above a basementless space is of wood or metal, and the space is not open to a ventilated basement as described above, provide:

A. At least four foundation wall vents located near the corners of the basementless space, having an aggregate free ventilating area equal to $1/160$ of the ground area of the basementless space in square feet, or:

B. Ground surface treatment in the form of a layer of smooth asphalt roofing weighing at least 55 lbs. per 108 sq. ft. lapped at a minimum of 2 in. plus at least two foundation wall vents, located for effective cross ventilation, having an aggregate free ventilating area of not less than 10% of that required in 2A.

3. In each vent opening install a corrosion resistant grill screened with corrosion resistant 8 mesh screening having a maximum wire diameter of .013. All ventilator materials shall be corrosion resistant.

4. Ventilation Area

A. Prefabricated ventilators shall bear a stamped certification of the net free ventilating area calculated in accordance with the following formula: "Net free ventilating area of any foundation ventilator shall be the unobstructed screen area less 19%.

B. Job site fabricated ventilation shall be calculated on the above formula.

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all around utility...
with less
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MOUNTS ON ANY 1½ TON
OR LARGER TRUCK

**here's the
easy-to-operate
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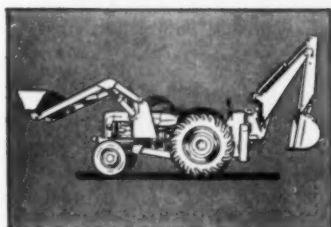
HOPTO
DIGGER • SHOVEL • CRANE

Mount the quarter-yard hydraulically operated HOPTO on any one and a half ton or larger truck! Give a good, non-skilled worker a couple of hours to familiarize himself with the four simple hydraulic controls. Then turn HOPTO loose on your toughest job. You'll be profitably amazed at the amount of work done by this fast-cycling, 200° swing unit! Hydraulic outriggers quickly stabilize HOPTO with a firm operating base. Heavy-duty HOPTO bites into blacktop, roots and other pick and shovel obstructions keeps schedules rolling!

DOES THE WORK OF 16 MEN ON 101 JOBS!

HOPTO digs 11' deep, loads in highest truck. Special dipper stick extension tilts bucket thru 180° • digs straight-sided, square-cornered holes! Here's the hired man that never gets tired or fired! HOPTO is the low-cost, heavy-duty unit you can mount on a truck already "written off" and have a mobile shovel, crane • at lowest equipment investment!

A wide variety of backhoes and shovel buckets adapts HOPTO to your exact requirements!



CHOICE OF MODELS

HOPTO is available in two additional models for truck mounting. Units for wheel or track-type tractor mounting as well as complete wheel and track-mounted units, a power take-off and a self-powered trailer model. Available with 24 G.P.M. or 36 G.P.M. hydraulic system.

Write for complete information
and name of nearest dealer



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OCTOBER 1956



Quality
NORDAHL
"In the Wall"
Sliding Door Frames

Increased liveable floor space is an important reason for making "Every Interior Door a Sliding Door." When you specify Nordahl you assure lifelong, trouble-free operation for your buyers. Important, too, it saves you money: No service problems, Reduced labor costs, and Less materials! Nordahl sliding door frames literally open doors to more spacious living.

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Wardrobe
Closets
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Wardrobe Hardware

Conveniently packaged in complete kits, Nordahl Wardrobe Hardware is trouble-free and easy to install. Available in lengths up to 16" and for all door thicknesses.

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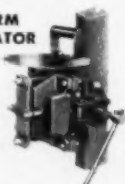
180 WEST ALAMEDA AVENUE • BURBANK, CALIFORNIA

249



SYNTRON CONCRETE VIBRATORS

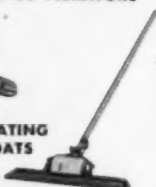
FORM
VIBRATOR



FLEXIBLE SHAFT
MASS VIBRATORS



VIBRATING
FLOATS



for uniform compacting and settling of concrete . . .

Syntron Concrete Vibrators are designed to save time and labor in settling and finishing concrete.

Form Vibrator Models—clamp directly to wall forms—Quick acting vise clamp make these Vibrators easily adaptable to many applications.

Flexible Shaft Mass Vibrators are for larger concrete mass settling such as dams, bridges, and piers, etc. Available with gasoline or electric motors.

Electromagnetic Vibrating Floats take the hard work out of floating concrete, make stronger denser concrete.

Other SYNTRON Equipment of proven dependable Quality



ELECTRIC SAWS

Belt driven to insure fast, easy cutting of wood, plaster board, plastic or concrete, no bucking or jerking just smooth high speed power cutting.

ELECTRIC HAMMERS

Fast, easy cutting, chipping or drilling in concrete. Electromagnetic design 3600 powerful blows per minute. Automatic rotation of bit for drilling.



GASOLINE HAMMERS

100% Self-Contained. Drill, dig, cut, tamp. No need for compressor or accessories. Automatic rotation of drill bits.

SYNTRON COMPANY
618 Lexington Avenue Homer City, Penna.

MERCHANDISING . . .

(Continued from p. 81)

weekend to close the sale. Then they ran full-page ads in the local papers. People who read the ads came out and saw all those sales being closed. It was very slick. They sold 400 houses that weekend."

Another popular feature which builders are finding helpful in merchandising is built-ins—the more the merrier—especially in higher-price houses.

Jack Zimmerman of Traverse City, Mich., for example, has two subdivisions at present. "No built-ins in the \$9,000-\$13,000 class," he points out, "but all they want in the \$13,000-\$21,000 class."

However, says Alyne Grant, Lake Charles, La.: "We get many young married couples from the nearby air base. We promote complete kitchens to them because if she likes it, he'll buy it. They go for push-button living."

Complains Carson Cowherd, Kansas City, Mo.: "Appliance manufacturers are really the best promoters in the industry. They have us buying \$1,500 worth of their merchandising to put in our houses because people ask for it. Home builders can learn a lot from them."

Builders agree it's never too early or too late to be promotion-minded. To wit:

•**The first visit** the prospect pays to the model house, John W. New, Salt Lake City, Utah, uses a camera that develops a picture in one minute.

"We take a shot of the prospect as he comes out of the model house and give it to him. Chances are he'll show the picture to his friends and, in a way, sort of half-commit himself to that particular house."

•**To help clinch the sale**, Gordon P. Peterson, Kenmore, N. Y., actually tailors his houses (\$14,000-\$18,000) to the needs of his customers.

"We keep control of outside color schemes but let customers choose interior finishes, built-ins, colors, even alter dimensions of rooms somewhat."

•**Moving in.** Once the sale has been made, David J. Sprout, Dayton, Ohio, sends men to help the customer pack and then move him in.

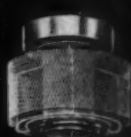
"We give the woman a floor plan and she marks where she

(Continued on page 252)

JAY announces

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new
kitchen
fixtures

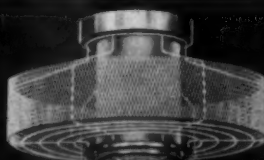
white magic



J667—Width 7 1/4"
Length 6 1/2"
Glass 3" x 5"
Frosted Cylinder



J668—Width 12"
Length 7 1/4"
Glass 4" x 6"
Frosted Cylinder



J668 and J669,
metal bottom
louvre

J669—Width 15"
Length 8 1/4"
Glass 5" x 7"
Frosted Cylinder

This new JAY creation for kitchen, bathroom and over-kitchen-sink, provides exceptional light output. Housewives prefer its simple construction, attractive appearance, ease of cleaning (without removing wired metal receptacle holder). Available in 3 sizes — 1 light, recommended lamp sizes; 75 to 200 Watts. Finish Chrome and White or Copper and White.

TO INSURE PROMPT DELIVERY JAY MAINTAINS WAREHOUSES IN: TORONTO, ONTARIO; CHICAGO, ILLINOIS; DENVER, COLORADO AND HOUSTON, TEXAS.



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Complete Catalog
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List Price \$1.67

Single TV socket for one
antenna lead-in & match-
ing plate for double con-
venience outlet. Complete
with TV plug. In brown or
ivory. Other types also.

Tomorrow's Homes are here to-
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AC/TV Wall Plate Sockets.
Color television demands a
good roof-top or attic antenna
and MOSLEY Outlets permit
plug-in connection of TV set to
antenna in any room...

... in any home!

• Low Cost! • Easy to in-
stall to meet electrical
codes! • Harmonizes with
existing wall plates!

You owe it to your clients to
show them the MOSLEY Wall
Plate Sockets...

Available from coast-to-coast. Write for name of nearest supplier.



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Finishes 8-hour job in 54 minutes with *Shure-Set*



SHURE-SET uses no cartridge, yet drives pins and threaded studs easily into steel, concrete block and mortar.

Shure-Set converts lost motion into profit

Every minute counts when one contractor moves in on the heels of another. Recently a leading contractor did a day's work in less than an hour. The time saved by SHURE-SET turned loss into profit!

Where it once took *three* concrete nails to anchor a junction box, *one* SHURE-SET drive pin now does it faster, holds more securely. Where drilling, bolting, chipping and plugging once delayed fastening jobs, now one man with SHURE-SET can outdistance other crews. It is no longer necessary to go back and refasten loosened boxes. SHURE-SET drives like a nail, holds like an anchor!

For every fastening assignment in mortar, concrete, light steel—SHURE-SET does it easily. Uses no cartridge, just makes your hammer power more effective. For every contractor, it's a necessary companion tool for RAMSET®, the powder-actuated fastening system.

Catalogs describing SHURE-SET and RAMSET are yours for the asking. Write for *both* today.

WE'RE SORRY

but the demand for SHURE-SET now exceeds supply. If your dealer has been unable to deliver SHURE-SET, please be patient. He can supply you soon.

Look for your dealer's name under: TOOLS, RAMSET, in the telephone book.

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12113-J BERE A ROAD

CLEVELAND 11, OHIO

MERCHANDISING . . .

(Continued from page 250)

wants her furniture to go. Our movers place it there. All for \$65 if within a 25-mile radius. The truckers carry liability insurance."

•**After they're in**, Frank C. Uible, Jacksonville, Fla., asks owners with complaints to call at a certain time of day, when he has a handyman around to take their calls.

"We don't want our buyers' visitors finding fault. We want them as prospects, so we like to keep our houses looking good even after they're sold. A satisfied customer is our best salesman. And if a customer brings us a prospect that leads to a sale he gets a vacuum cleaner or radio or similar gift. If he brings us five we give him a tv set."

Adds Jack Hughes, Greenville, S. C., "Out of every five houses we sell, one is to a relative or close friend of a former buyer!"

Reviving the lost art of salesmanship

"One customer told us he had been to seven developments before ours but that our man was the first one to ask for the sale."

In that comment by a Mid-western builder lie many of the selling problems facing builders today: how to find, train, and motivate salesmen to *make* sales rather than wait for customers to buy.

Admittedly, this kind of inertia is a carryover from the long-time sellers' market. And it explains Sales Manager Gordon Butz's aversion to "experienced" house salesmen ("I like to hire people like former postmen or milkmen—people who know people and like them and have an enthusiasm to sell them," says Butz).

There are other characteristics builders look for in the salesmen they want to employ and train: stability, maturity, self-reliance, friendliness, dominance, persuasiveness, loyalty, perseverance, willingness. Product knowledge too, of course, but, as veteran sales trainer Gary Gariepy told the builders, "attitude counts far more than aptitude."

True, many are born with the personality, intelligence, appearance, and ability that make them natural salesmen. But there are far

(Continued on page 254)

HANSEN ONE-HAND TACKER CUT COSTS ON THIS JOB

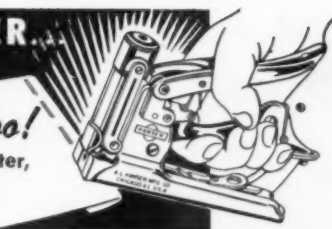
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Can Cut Your Costs—Do A Faster,
Better Job—with HANSEN

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Hansen Tacker tacking insulation building paper—one of many uses in doing a faster, better job, and cutting costs.



HANSEN—the Modern Way to do all kinds of tacking and fastening jobs—is easy to grip and operate. Designed to do a better tacking job—faster!

ZIP! ZIP! FAST AS YOU GRIP—HANSEN drives Tackpoints for installing insulation, hydron, metal lath, cornerite, building paper—and does many other tacking and fastening jobs.

CUTS COSTS! Light weight, readily portable, one-hand operation; rapid, positive driving action; balanced design; steady, on-the-job performance are features that insure economical operation and low-cost installation.

A BETTER JOB—FASTER! Accurate driving, with precision-made Hansen Staples, insures faster work without waste of time, steps or materials. Hansen holds 84 to 140 Tackpoints per strip. Staple sizes up to 1/2" length. Tackers in 36 models. Specify—buy—use HANSEN!

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50-50 PUSHOVER ALLITH GARAGE DOOR HARDWARE

USE YOUR OWN OR
ANY STANDARD DOOR

NO MAINTENANCE COSTS

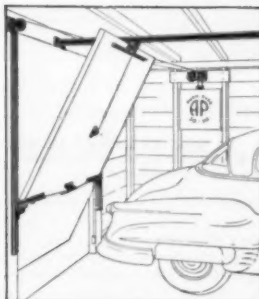
SIMPLIFIED INSTALLATION

ADAPTABLE FOR ANY
TYPE GARAGE

ALLITH hardware works with equal efficiency on either custom or mill-made doors. All working parts simple and sturdy—no springs to stretch or loosen. All hardware parts inside and protected from weather.

Unit shipped complete to the last screw. Quickly and easily installed. Standard set fits any opening up to 9' wide x 7'6" high when doors do not exceed 275 lbs. Other sets available for openings up to 10' wide x 10' high. Write for details.

OCTOBER 1956



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FEATURE Vacu-FLO FOR TOP ATTENTION AND EXTRA SALES POWER

Newest practical attraction for your model home promotions. Profit with the major publicity and advertising in leading national publications. Be first in your area to feature Vacu-Flo. We'll help you. Here's real appeal:

- ★ Dustless cleaning
- ★ Vacuums wet or dry surfaces
- ★ No machine noise in living area
- ★ Maximum vacuum efficiency at all times
- ★ Eliminates machine to lift, lug or tug around
- ★ Safe—no electrical cord to tangle or trip over
- ★ Built to serve the life of your home

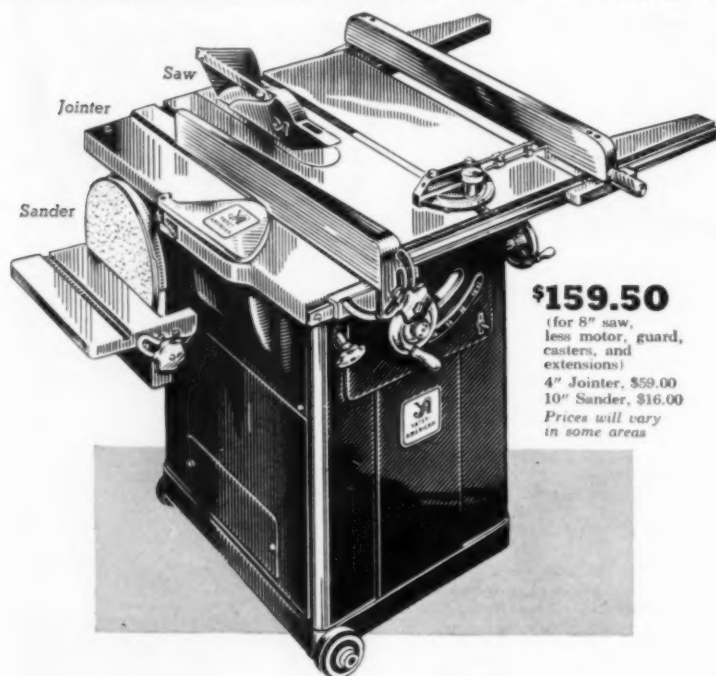
H-P PRODUCTS, INC., LOUISVILLE, OHIO
DEPT. A

Please send me Vacu-Flo brochure and information.

Name _____

Address _____

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\$159.50
(for 8" saw,
less motor, guard,
casters, and
extensions)
4" Jointer, \$59.00
10" Sander, \$16.00
Prices will vary
in some areas

You Save Time - Money with Yates-American MOBILE WORKSHOP

That's why the Yates-American Saw-Jointer-Sander Combination is first choice of builders everywhere — on the job-site and in the shop!

Just turn a knob to change from saw-to-jointer-to-sander.

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Professionals in the woodworking field prefer the Mobile Workshop. Write for colorful catalog describing in detail this powerful, profitable partner.



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This coupon brings
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These are high-
grade industrial-
type casters that
cost \$15.00.

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and mail today!

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Dept. J, 727 N. Fourth Street, Beloit, Wisconsin

Send me catalog on the Saw-Jointer-Sander Combination;
also special-preference letter entitling me to special bonus.

Name _____
Company _____
Address _____
City _____ Zone _____
County _____ State _____

J-11

MERCHANDISING . . .

(Continued from page 252)

more who can be developed into first-rate salesmen. So the first consideration in sales training is the trainer himself, whether it's the builder or his sales manager.

In this phase of merchandising, builders recognize the importance of professional direction; they rely on specialists in sales management as well as market research, advertising, and sales promotion. And, where they can, they help themselves.

For instance, David J. Sprout, Dayton, Ohio, keeps an intercom system in his model houses, with the receiver in the sales office. The sales manager can tune in on any house and hear the salesmen deliver their pitch.

"It's helped save a lot of sales," says Sprout, "because sometimes the sales manager can run over and give the salesman a hand if he needs it. The salesmen don't resent being listened to; in fact, they tell us it has spurred them to sell better."

When it comes to paying salesmen, there are about as many ways as there are builders. Compensation may be as low as \$40 a house or as high as \$200 among tract builders, more for custom builders. Some pay a flat salary, others a commission (usually around 1 percent of the sale price). Still others pay salary plus commission, with all fringe benefits, including paid vacations.

One common problem involves fee splitting, when one salesman gets the prospect and another closes the sale. Here, too, arrangements vary; e.g., some builders pay a flat sum such as \$25 or \$50 to the man who closes, deducting this amount from the commission of the salesman who lined up the prospect.

Jacksonville's Frank C. Uible, has an interesting incentive plan:

"We have six salesmen. We used to pay them a flat \$100 a house. Several months ago we decided it would help to raise this to \$200 a house. Well, we found that was a mistake. The men didn't work so hard. Now our sales manager's job is to keep the men hungry. So we've changed our payment arrangement. Instead of paying \$200 a house, we pay \$150 and put the remaining \$50 into a kitty. After six months the three salesmen who have sold the most houses share in this kitty in proportion to their sales."

Mix bigger yardage with a Jaeger



Get up to 15 extra yds. a day from the same labor with a Jaeger 3 1/2 S Auto-Loader, the fastest half-bag mixer built, because you load as you mix and measure as you load. Power-shaker action charges drum in a flash; extra big bucket and flight blades mix thoroughly, discharge rapidly.



Pours 60 yds. a day with Jaeger 6S Speedline mixer. Mixer and 7 man crew (3 loading, 3 wheeling, 1 operating mixer) averaged a batch every 1 1/4 minutes pouring footers and floor slab. Famous "Skip Shaker" loader speeds batch into drum in 5 to 7 seconds. Discharge is just as fast. Criss-cross double mixing action assures uniform quality concrete.

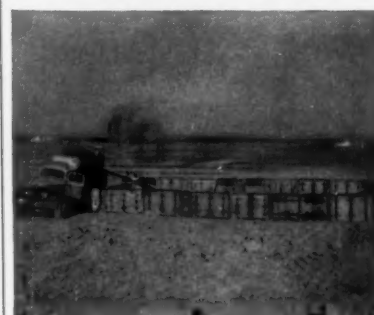
See your Jaeger distributor or send for catalog.

THE JAEGER MACHINE CO., 521 Dublin Ave., Columbus 16, Ohio



Cut placing costs with Jaeger self-raising "Hoister" Tower that makes quick work of material placing. Saves labor, too. Assembles easily in 10' sections to 67'. 1-ton capacity. Available with material cage or 14' bucket. Easy to move. Positive automatic safety device.

Symons FIELD REPORT...



Assembly-Line Pouring with Symons Wide Panel Forms...

F&S Construction Company, Phoenix, Arizona, is converting 615 acres of farm land, northwest of Chicago, into one of Chicago's largest private suburban housing projects. 1,350 homes in the \$15,500 to \$17,900 price range are planned.

Symons Wide Panel Forms were used on the 265 homes already erected. Seven sets were used over 35 times in the assembly-line pouring. Also, approximately 6,000 square feet of Symons Forms in 2' x 6' and 2' x 8' sizes with fillers, were used to construct the sewage system for the development.

Our engineering staff is experienced with all types of forming and will furnish complete form layout and job cost sheets on your form work—at no charge or obligation. Our salesmen give advice on form erection, pouring and stripping methods.

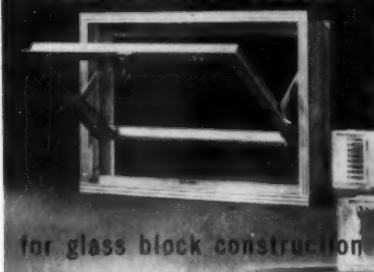
Symons Forms may be rented with purchase option. Symons Clamp & Mfg. Co., 4261 Diversey Avenue, Dept. K-6, Chicago 39, Illinois.

Rudy Gasten is resident manager for F&S and George E. Steele is general superintendent.



Catalogs and Additional Information on FORMS Sent on Request

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the commercial-type ventilating
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DEALERS—Show these features . . . they add up to more sales.

"Not just a window . . . a WINCO"

WINCO VENTILATOR COMPANY St. Louis, Mo.



TRADEMARK REG. U. S. PAT. OFFICE.

USE GENUINE

MOLLY



THE PERFECT FASTENER

To hold ANYTHING
Securely in Hollow Walls,
Floors and Ceilings

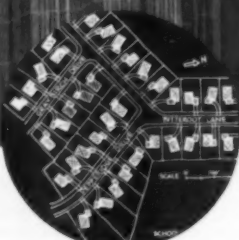
Unlike nails and screws, Molly allows you to install fixtures securely and exactly where you want them—not where studs are. Molly ends loose fixtures, crumbled plaster, broken walls. Molly reinforces the area in which used, won't pull through. Unlike other types of fasteners, Molly anchorage is permanent—fixtures can be removed and replaced in the same anchor. Molly is inexpensive and money-back guaranteed.

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MOLLY CORP. • DEPT. J-40 • READING, PA.

**INSIDE
STORY
OF
SALES
SUCCESS**



Contemporary design accents figured glass entranceways in Frostwood Addition.



Ed. Fischer, President



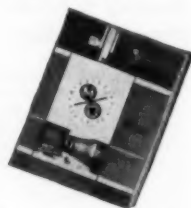
Larry "Bud" Frichtel, Vice-Pres.

Sales Start at Doorway When Glass Greet's Prospect

Continuing sales have proven to Fischer & Frichtel, St. Louis County builders, that today's home buyer is sold on contemporary design. And nothing is more modern than translucent glass. "Buying starts at the door", says Ed Fischer and "we found that Mississippi Bandlite helps dramatize the interior, set the stage for the sale".

Translucent glass floods interiors with flattering "borrowed light" ... makes them appear larger, friendlier, more liveable. And glass adds an air of luxury, for it is modern, practical, beautiful. And glass is so easy to install and maintain. It eyes right and sells on sight!

Buyers want that "different look". See your nearby Mississippi distributor and select from a variety of patterns and surface finishes that can add extra sales appeal to your homes.



Write today for free catalog. Address Dept. 34. Samples on request.

MISSISSIPPI *glass* **COMPANY**

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SAINT LOUIS 7, MO.
FULLERTON, CALIFORNIA

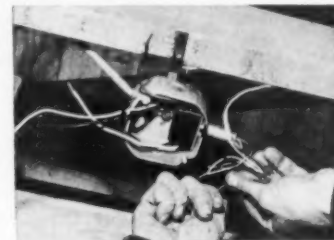
WORLD'S LARGEST MANUFACTURER OF ROLLED, FIGURED AND WIRED GLASS

HOUSEPOWER

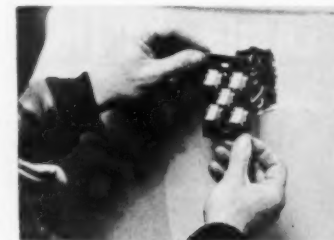
3-step wiring for a 5-switch remote control



LOW VOLTAGE miniature relay fits ordinary outlet box, replaces centrally located transformer in other systems.



SOLDERLESS CONNECTIONS and #18 bell wire make job of matching switch and relay wires easy. Unit uses 6 volts.



FIVE SWITCH CONTROL has standard size face plate which is screwed to plaster ring instead of a conventional box.

In their 330-unit Oceanside, L. I. development builders Ballin, Glicksman and Langfur installed a low voltage remote control system (Remcon) for under \$75. The five-switch bedside control turns on lights in all parts of the house. The builders say it saves on roughing-in time for the electrician, who ordinarily requires about ten and one-half hours to do a house; with a Remcon system he can do it in about six hours.

AMERICAN BUILDER

NEW HAR-VEY



HARDWARE

gives added uses,
new versatility to
WOOD DOORS

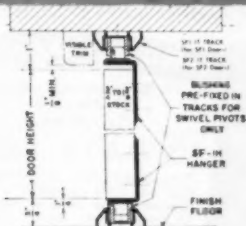
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• Room Dividers • "His 'n
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VARIETY OF DOOR MATERIAL

Har-Vey Hardware enables
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many different materials for
slide-a-fold applications: Solid
wood • hollow • plywood •
woven wood strips in wood
frames • plantation shutters—
any framed screening, fabric,
glass, or plexiglas, etc.



- Installs in 20 minutes ● Lasts a lifetime
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Slide-A-Fold Doors provide
beauty, permanence, accessibility.

Har-Vey Hardware provides
smooth action, lifetime quality.

Low Cost • Panels from 3/4"
to 1 3/4" are accommodated by
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\$6.59, \$7.59, \$8.59 and \$9.59.



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Factories: California, Texas, Illinois, Indiana, Florida

BUILDERS MAKE MONEY WITH SAFETY "EXTRA"

Merchant builders report homes sell
better when they feature Fire Hose
Station, household form of the fire



hose cabinet used in major struc-
tures. "Most sales appeal I can get
for \$40," says one.

Private builders and even remodel-
ing contractors find this novel and
practical product brings extra profit.
"Anyone will pay \$100 for Safety,"
one states. "Especially in areas
where it cuts insurance cost."

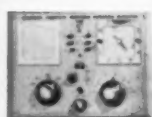
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release rack. Adjustable nozzle is
locked on; valve at other end con-
nects to standard cold water line.
Door can match wall. By the lead-
ing manufacturer of Interior Fire
Protection Equipment since 1887...

W. D. Allen Manufacturing Co.,

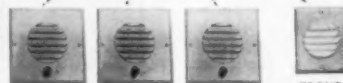
Allenco Bldg., Room 720
566 W. Lake St., Chicago 6.

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system



Designed for new construction, to be
built in the wall between studs. Gives
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ter unit and any or all remote units.
Master station includes fine AM radio
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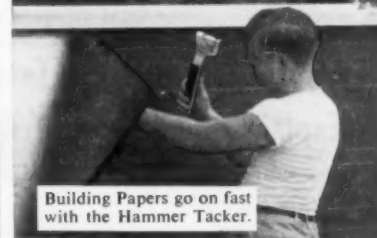
ONE HAND DOES THE JOB



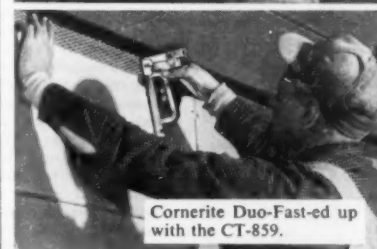
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Building Papers go on fast
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with the CT-859.

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Send for the complete, money-saving story
on fully guaranteed
DUO-FAST STAPLE TACKERS.

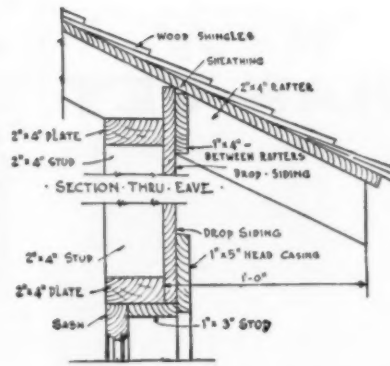
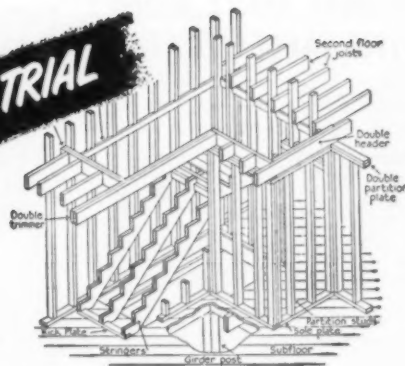
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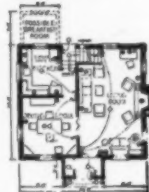
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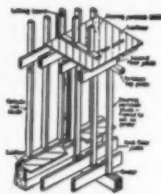
Every Step in House Construction Explained and Illustrated



Fireplace and
Chimney Details

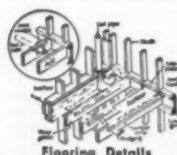


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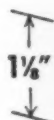
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NEW 1 1/8"**

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2 jobs—1 material—solid subfloor—smooth underlay—spans 4'

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New 2·4·1 helps you build better and at *substantially lower cost*. This thick plywood panel makes possible an entirely new floor construction system that will save you from fifty to five hundred dollars—depending upon local costs, size of house and type of construction you are now using.

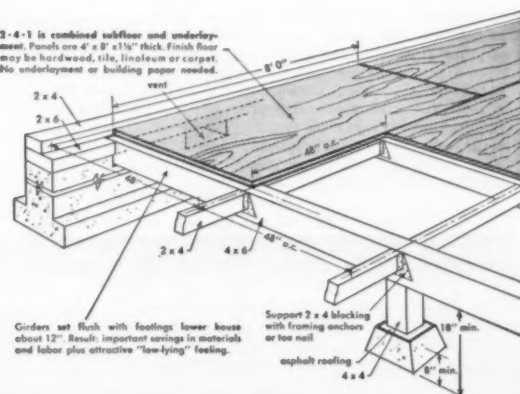
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You save on framing costs and application time. 2·4·1 can be installed in half the time required for lumber... in a third of the time required for lumber subfloor and underlayment. Because 2·4·1 has structural strength *plus* smooth surface, it serves as *both* subfloor and underlayment.

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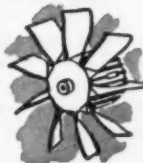
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An exclusive of FASCO... develops pressures unobtainable by ordinary fan blades. Offers higher air delivery with much less noise than conventional blower wheel ventilators. And quality-controlled production means no service call-backs.



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For large and medium sized kitchens. Adaptable for inside wall above stove, through cabinets or in ceiling. 10" Impeller, 530 CFM.



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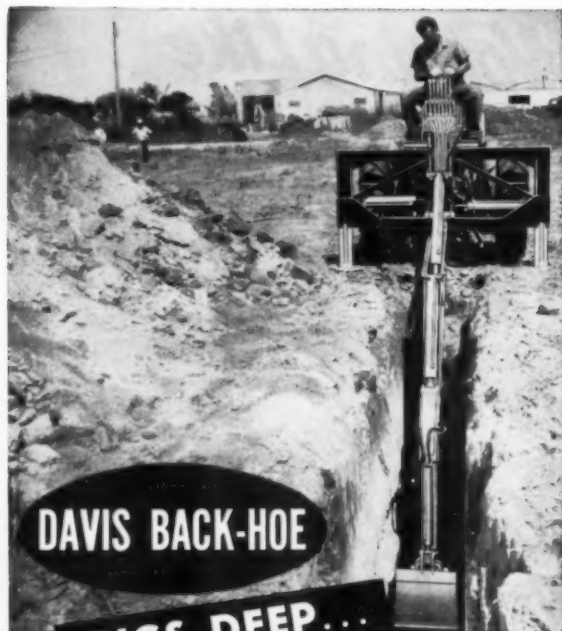
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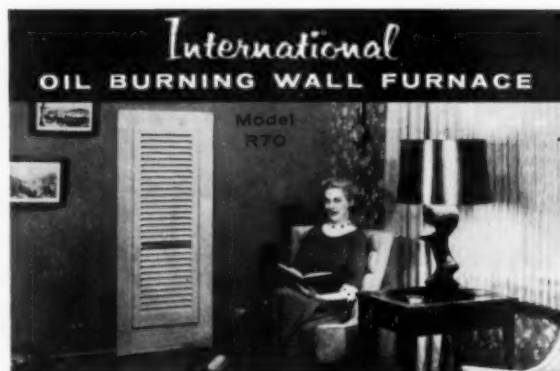
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to fit a.....tractor.
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So Charming...*

Here's beauty that will warm and charm the cockles of any home buyer's heart. This wall furnace is designed to complement the most distinguished interior and spread cozy comfort from corner to corner, room to room.

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Size of your operation doesn't vary the importance of making full profit on each unit.

Call-backs and replacements due to leaks, rattles, and scrapes in windows and sliding glass doors steal your profits, can't possibly earn income.

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Vari-Pitch Louvers are economical too. Records show they actually cost less than the building materials they replace.

THEY PROVIDE MAXIMUM VENTILATION



Vari-Pitch adjustable louvers afford the kind of ventilation required in modern building ... to meet FHA requirements—to complement air conditioning. See chart below for the free area of ventilation provided by each model.

10 Vari-Pitch MODELS AVAILABLE

Model No.	Variable Pitch (Min. & Max rise per ft.)	Free Area of Ventilation Provided (sq. inches)	
A33B	4" to 6"	At 4" pitch—26.5"	At 6" pitch—31.0"
A44B	4" to 6"	At 4" pitch—60.0"	At 6" pitch—63.0"
A50B	6" to 12"	At 6" pitch—33.6"	At 12" pitch—49.6"
A56B	6" to 12"	At 6" pitch—43.7"	At 12" pitch—76.7"
A88B	6" to 12"	At 6" pitch—63.8"	At 12" pitch—109.2"
30-4	4" to 7"	At 4" pitch—76.0"	At 7" pitch—147"
38-5	4" to 7"	At 4" pitch—82.0"	At 7" pitch—196"
46-6	4" to 7"	At 4" pitch—132"	At 7" pitch—348"
54-7	4" to 7"	At 4" pitch—256"	At 7" pitch—500"
62-8	4" to 7"	At 4" pitch—343"	At 7" pitch—667"

See your dealer or write for information on the complete

Lo Man Co line of ventilating equipment

Nation's Largest Exclusive Louver Manufacturer

Louver MFG. & SUPPLY COMPANY

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NOW...

Set a $\frac{1}{4}$ " stud
in steel or
concrete with
one light tap!

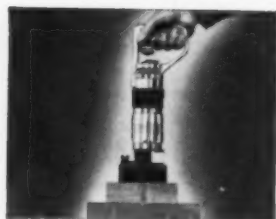
ONLY
\$34⁷⁵

NEW Remington "Mighty-Mite" STUD DRIVER

HERE'S the new handy-sized cartridge-powered Remington stud driver that handles all fastening jobs requiring a $\frac{1}{4}$ " stud. "Mighty-Mite" sets a stud a minute—with no pre-drilling or outside power required, and it's yours for only \$34.75.

"Mighty-Mite" is compact and easy to operate. Simply unscrew the upper assembly, insert the 22 caliber cartridge with the desired $\frac{1}{4}$ " stud, and you're ready to anchor wood sections or steel fixtures to concrete or steel! One light tap of a hammer or mallet on the firing pin and your stud is set firmly in place, straight as an arrow.

We have all the facts about the new Remington "Mighty-Mite" in an illustrated free booklet. Included are many applications, with pictures, of this versatile stud driver that pays for itself in just a few fastenings. Send for your copy today by mailing the coupon below.



"Mighty-Mite" is the low-cost companion tool to the Model 455—medium and heavy-duty Remington Stud Driver.

Remington



Industrial Sales Division, Dept. AB-10
Remington Arms Company, Inc.
Bridgeport 2, Conn.

Please send me your free booklet which shows how I can speed the job and save with the new Remington "Mighty-Mite" Stud Driver.

Name _____ Position _____

Firm _____

Address _____

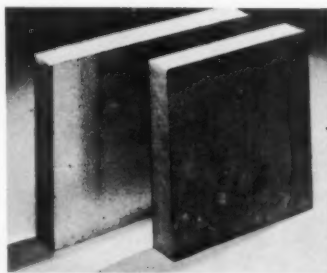
City _____ State _____



**American
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New products

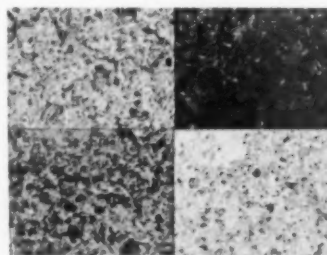
WALLS & FLOORS



New expandable polystyrene has variety of uses

Uni-Crest, an expanded and expandable polystyrene now on the market, is suggested by United Cork for use as insulation when molded in slab, brick or sheet or combined with laminated and sandwich materials to provide light and sturdy panelling. Variety of shapes and sizes of Uni-Crest plus lightness, ease of installation and low cost make possible many uses to the builder. Laminations with almost all currently used materials. Information from United Cork Companies, Dept. AB, Uni-Crest Div., Kearny, N. J.

Circle No. 10062 on reply card, p. 154



New cork floor tile has range of three shades

A new KenCork floor tile with greater flexibility, smoother finish, uniform thickness and a range of natural cork colors is offered by Kentile. The tile has been made available in a $\frac{1}{8}$ " thickness to afford lower costs, as well as in $\frac{3}{16}$ ", $\frac{9}{16}$ " and $\frac{1}{2}$ " gauges. KenCork comes in three color combinations. Tiles are uniformly thick, need no beveling at edges. Approx. retail prices: from 40 cents to 70 cents per sq. ft. installed. Kentile Inc., Attn. A. S. Baldwin, Dept. AB, 58 Second Ave., Brooklyn, N. Y.

Circle No. 10063 on reply card, p. 154



MADE TO ORDER FOR "OHI"

(Operation Home Improvement, sponsored by the U. S. Chamber of Commerce)

You can really save money on modernization and remodeling projects, and at the same time provide steel windows of the very highest quality...When replacing old windows or adding new ones, use HOPE'S RESIDENCE CASEMENTS in Hope's Combination Inside-Outside Steel Trim. Our Inside-Outside Trim entirely eliminates costly window stools, aprons, corner beads, outside mouldings, and the labor costs of fitting and installing these items.

Hope's Inside-Outside Trim is easily assembled and attached to Hope's Steel Casements. The entire assembly can be completely installed in a rough opening in less than 15 minutes. Customers tell us they have saved up to four dollars per window opening using these products.

See our Catalog Inserts in Sweet's Files for additional information, or write for our folder No. 132-AB

HOPE'S

JAMESTOWN, N. Y.

Since
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INSIDE-OUTSIDE METAL TRIM

STEEL WINDOWS HAVE THE STRENGTH AND RIGIDITY THAT NO OTHER WINDOW CAN MATCH

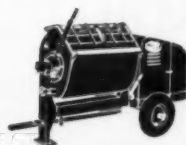
MULLER MACHINES
combine
high quality with
low price

Customers often express surprise that Muller Mixers and Power Trowels of such excellent quality can be sold for such low prices. There are four reasons: (1) long experience (46 years), (2) specialization, (3) best materials, (4) best distributors.



Ask for prices and name of local dealer. You will be agreeably surprised with Muller's low prices.

MULLER MACHINERY COMPANY, Inc.
Metuchen 4, N. J. Cable Address MULMIX



**PLASTER and
MORTAR MIXERS**

Five sizes, 2 to 10 cu. ft. Electric or gasoline. Muller Lifetime Paddle Shaft Seal. Power throwouts on smaller models, disc clutch on larger. Rubber scraper blades optional.



CONCRETE MIXERS

Three models, 3 to 6 cu. ft., tilting type. Ample drums, fast mixing action. Timken Bearings, electrically welded construction. Electric or gasoline.

4 BLADED POWER TROWELS—Sizes 24", 29", 34" and 44" dia., B & S Engines. Stationary guide ring. Clutch and speed controls on handle.



Dur-O-wal preserves beauty, adds structural soundness and prevents cracking.

Trussed Design
Butt Weld • Deformed Rods
DUR-O-WAL®

Phone, wire or write Dept. 2F today for complete dealer information . . . you have a market for Dur-O-wal in your town. Act now.

Dur-O-wal Div., Cedar Rapids Block Co., CEDAR RAPIDS, IA. Dur-O-wal Prod., Inc., Box 628, SYRACUSE, N. Y. Dur-O-wal of Ill., 119 N. River St., AURORA, ILL.
Dur-O-wal Prod. of Ala., Inc., Box 5446, BIRMINGHAM, ALA. Dur-O-wal Prod., Inc., 4500 E. Lombard St., BALTIMORE, MD. Dur-O-wal Div., Frontier Mfg. Co., Box 49, PHOENIX, ARIZ. Dur-O-wal, Inc., 165 Utah St., TOLEDO, OHIO



Ask for more facts about WINDOWS BY VENTO

(Steel or aluminum)

Exclusive Features in

VENTO Aluminum Awning Windows

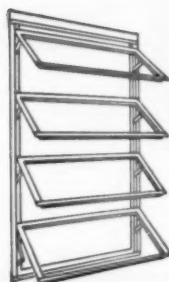
AUTOMATIC LOCKING . . . No gadgets to turn, no gimmicks to operate, nothing to get out of order.

WEATHER TIGHT . . . VENTO alone keeps metal to metal contact plus metal to weatherstrip.

UNLIMITED ADJUSTMENT . . . Unique in ability to be quickly returned to proper adjustment.

POWER PLUS OPERATOR . . . Screw—not worm geared—operator working in self-lubricating nylon journals.

EFFORTLESS OPERATION . . . Nylon roller blocks at all friction points permit finger tip operation.



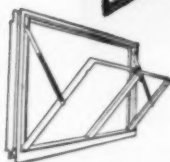
VENTO Steel Casement Windows

All casements drilled and tapped to receive storm sash and screens, operator arm guide channels attached with screws for easy removal and replacement, if necessary; ventilator frames constructed from the same heavy sections as the outside frame to provide greater rigidity and stronger ventilators.



VENTO Bonderized "Champion" Steel Basement Windows

Effortless operation gives any of three ventilation openings, or sash removal. Sturdy 14 gauge jamb fins for easy installation in block or poured concrete walls. An improved cam latch and slotted opening allow greater tolerance, insuring positive operation and latching under all conditions. Basement sash also made in Thrifty style in three standard sizes and in special sizes. Both Champion and Thrifty styles available in putty or puttyless glazing. For poured basement walls, window forms available for both Champion and Thrifty styles to suit individual specifications.



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Vento Pivoted, Projected and Architectural Windows are suitable for every type of commercial and industrial building, especially where abundant daylight and fresh air are desired. The result of many years of continuous development by experienced window engineers and craftsmen, they now are offered in a broad new range of types and sizes.

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Steel Products

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|---|---|
| <input type="checkbox"/> AWNING TYPE ALUMINUM | <input type="checkbox"/> STEEL BASEMENT |
| <input type="checkbox"/> PIVOTED, PROJECTED, ARCH'T'L | <input type="checkbox"/> FORMED STEEL LINTELS |
| <input type="checkbox"/> STEEL CASEMENT | <input type="checkbox"/> UTILITY |

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Name

Street

City and State

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New products

WALLS & FLOORS



Embossed siding adds style to commercial buildings

A box ribbed embossed siding has been introduced by Kaiser Aluminum to give contemporary architectural styling to industrial buildings. Siding may be used as single sheet siding or as exterior of field-fabricated sandwich wall. Sheets of .024" or .032" industrial siding for interior; one-inch layer of glass fiber insulation and exterior of new box ribbed embossed siding combined for sandwich wall. Sandwich wall cost: approx. \$1.15 to \$1.35 per sq. ft. erected in place. Kaiser Aluminum & Chemical Sales, Merchant Products Div., Dept. AB, 919 North Michigan Blvd., Chicago 11, Ill.

Circle No. 10064 on reply card, p. 154

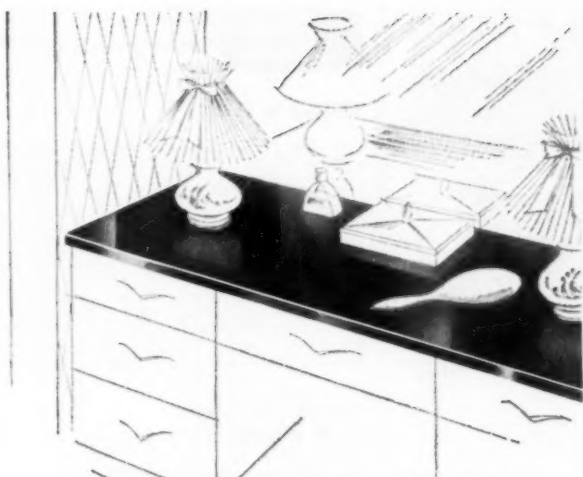


Large size ceramic facing for commercial buildings

Stylon's new Magna-Tile is a rectangular-shaped ceramic facing (12" x 16") which will open new design possibilities for architects and builders. Suggested for use on store fronts, lobbies, washrooms, corridors, clinics etc., the tile is available in eight Matt-glazed colors and seven "ripple" finishes. From \$1.50 to \$1.75 per sq. ft. From Stylon Corp., Attn. L. S. Dabney, Dept. AB, Box 341, Milford, Mass.

Circle No. 10065 on reply card, p. 154

AMERICAN BUILDER



Give the homes you build
an extra touch of Sales Appeal
with built-in dressing tables
featuring tops of beautiful, durable
... Carrara Structural Glass

Carrara® Structural Glass is ideal for vanity tops.
Its gleaming beauty is not affected by spilled per-
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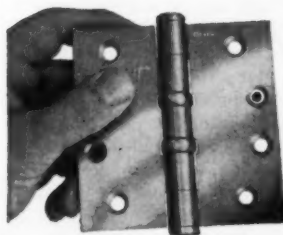
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you know what happens to CONCRETE?"
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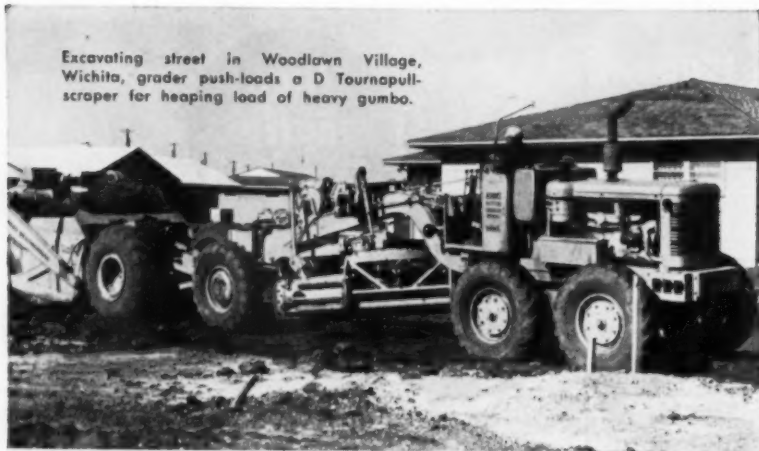
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COMPANY POSITION

ADDRESS

CITY ZONE ... STATE 34-10

Excavating street in Woodlawn Village, Wichita, grader push-loads a D Tournapull-scraper for heaping load of heavy gumbo.



How streets are excavated in Wichita subdivision

Woodlawn Village, an attractive residential subdivision near the eastern limits of Wichita, Kansas, is growing rapidly with the completion of streets and drainage. This modern development, by Wheeler-Kelly-Hagney Realty Company, of Wichita, will eventually occupy a 160-acre tract. The soil is heavy gumbo which ruts deeply during the rainy season, bakes hard in dry weather. Good streets and adequate drainage are an important factor to home owners in this area.

Ritchie Bros. Construction Co., of Wichita, contracted to excavate streets in a section of this subdivision. To handle the work efficiently, Ritchie Bros. moved in three self-propelled scrapers and a big Adams 660 grader. The contractor equipped his grader with a heavy push-plate, so it could be used to push-load scrapers. With this advantage he could speed-up his scraper loading without having to add a push-tractor to his fleet.

The "660" grader has power and speed to handle big loads, and get around fast. When not busy push-

loading scrapers to bring streets to grade, it leveled sub-grade, spread filled areas to grade, and readied streets for paving.

J. H. Boaz, Ritchie's Foreman on this job, said, "I have had over 20 years' experience in all types of construction, heavy and light, and this Adams 660 is the best all-around grader I have seen." And operator Dean Wolf remarked, "This Adams outperforms any grader in use today."

Cut costs with Adams graders

Whether you hire outside earthmovers, or have your own earthmoving fleet, there's an advantage to you in using Adams graders. These sturdy machines will help cut costs, because they do more work in less time. Adams gives you 8 forward speeds to 26 mph, for fast work, fast travel; 3 optional "creeper" speeds, for steady power in turning up buried stones and roots, and for accurate blade control in fine finishing. And Adams gives you 4 back-up speeds, to 13.7 mph, which save valuable time on shuttle-grading and push-loading.

You will find many reasons why Adams graders can speed land-leveling and street-building on your housing projects. Write for complete information. Ask, also, for names of contractors in your area who can put Adams graders to work for you.

Adams—Trademark AG-26-B-zw

**LeTourneau-
WESTINGHOUSE
Company**
Peoria, Illinois

A Subsidiary of Westinghouse Air Brake Co.



Quick back-up (to 13.7 mph) saves time in shuttle-grading. Wide forward speed-range gets more work done in less time.

**American
Builder**

New products

WALLS & FLOORS



Ceramic tiles now form picture walls

Picture walls in ceramic tiles now being marketed by Pomona Tile. Illustrated above is firm's "Birds in Flight" panel to be spaced in an 8 x 9 ft. wall. Tiles, which measure 6 x 6" come in a total of 62 units to make up complete design. Can be expanded for larger walls or contracted for smaller spaces. Picture tile walls suggested for entry halls, bathrooms, playrooms, kitchens, etc. Other designs include "Oklahoma" farm scenes, "Jewel" tiles and "Butterfly" series. More information from Pomona Tile Manufacturing Co., Dept. AB, Los Angeles, Calif.

Circle No. 10066 on reply card, p. 154



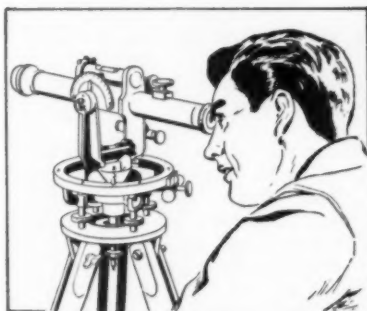
Hardwood parquet flooring in easy-to-lay units

A new way of laying a hardwood parquet floor over concrete, plywood or wood floors is suggested by Harris Mfg. Co. Units making up parquet design measure 5/16" x 19" x 19" and are themselves composed of 16 squares of small hardwood slats. Units are held together by paper glued to face. After laying unit on special adhesive base, paper is easily removed and squares eased into place, seated and finished according to color desired. Prices vary from 60 cents to \$1.00 per sq. ft. installed. From Harris Mfg. Co., Attn. June Williams, Dept. AB, 434 E. Walnut St., Johnson City, Tenn.

Circle No. 10067 on reply card, p. 154

Precision-built for the man behind the gun

Light construction levels ...by White



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...such accuracy
and dependability
at so low a cost

DEVELOPED originally for agricultural use, these levels have been recently improved and are now in big demand for a wide variety of light construction operations.

Small, compact and sturdy, these White levels are exceptionally simple in design and construction. And it's this rugged simplicity that makes them extra reliable and trouble-free.

Model 8017 features 10-power telescope, 2 1/2" long graduated spirit level and 4 1/2" diameter circle graduated in degrees and numbered in quadrants (0-90-0), with an index pointer. Price: \$46.50* complete

Model 8022 convertible — allows you to level and plumb from same setup. Features 10-power telescope, 2 1/2" graduated spirit level, 2 1/4" graduated vertical arc and a 4 1/2" diameter horizontal circle. Price: \$79.50* complete

For complete details, write for **DAVID WHITE Bulletin 1056** and name of nearest dealer, 301 W. Court St., Milwaukee 12, Wis.



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REPAIR SERVICE
on all makes,
all types of
instruments

*Prices subject to change without notice.

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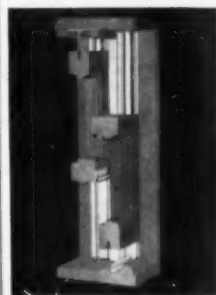
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The problem was to design a heating system that would result in a room temperature maintenance of 1 plus or minus degree in relation to the thermostat. The solution came by using economical SONOAIRDUCT Fibre Duct, wrapped with 1" Fiberglass insulation, protected from moisture with a Siskraft outer-wrap.

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Haverstick, cont.

the objectives of our Federal housing legislation.")

In a special message to NAHB members, Haverstick gave some good advice which it might be well for all builders to consider:

- Don't start building or go very far in project planning without written financing commitments.

- Keep production close to sales volume. It's no time to risk unsold or unfinanced inventories.

- If using warehousing, don't depend on extensions of agreements.

- Don't assume tight money is temporary—it may get tighter.

- If your profit margin has been squeezed to the vanishing point, cut back production.

Discussing, in particular, the current tight money situation, Haverstick blamed administration and fiscal authorities for a lack of understanding and appreciation of the practical workings of home mortgage market and the importance of housing on the total economy. He also censured housing agencies, Federal Reserve Board, treasury and other officials concerned for failing to co-ordinate their planning in advance, stating the imbalance between FHA-VA loans and current market conditions was due to this failure.

Unless the situation is corrected immediately, he noted, they must face these consequences:

- In effect, telling the lower and middle income families who depend on FHA-VA financing that housing for them will be more difficult with higher downpayments and shorter terms.

- In effect, telling home builders to cut back, go out of business or shift to higher priced homes.

- In effect, telling all the businesses and industries which feel very directly the effects of a vigorous home building industry that they, too, must cut back.

Levitt blasts curbs

Haverstick was not alone in his attack. From William J. Levitt, one of the country's biggest builders, came the grim prediction that unless the mortgage interest rates are allowed to rise, the volume of small-home building will drop by one-third next spring.

The cure, as Levitt sees it, is to raise interest rates on both FHA and VA loans to 5½ per cent. (Congressional action would be necessary in the case of VA. For more discussion on financing, read Dickerman's column, p. 25.)

SPACE-**SAVING**

Ideas

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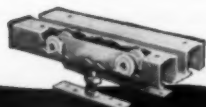
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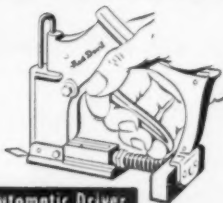


Take the guesswork out of Sliding Door Installations. Select the right hardware for every interior use from Kennatrack's easy-to-use Buyer's Guide. Write for your free copy.



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Belt sanders, orbit sanders, polisher-sanders and sander kits by MALL are always in strong demand by cabinet makers, carpenters and construction men. Priced from \$38.95.



MALL electric, gasoline and pneumatic chain saws have exclusive MALL roller bearing nose guides... cut 3 times faster. Prices from \$104.50.

In 30 years of building power tools, from concrete vibrators and rubbing units, through portable electric and pneumatic tools to chain saws and electric generators, MALL has earned a reputation for superior quality, performance, service and fair prices that you can depend on.

Send coupon today for this complete **FREE** catalog of MALL **PORTABLE POWER TOOLS.**



MALL TOOL COMPANY

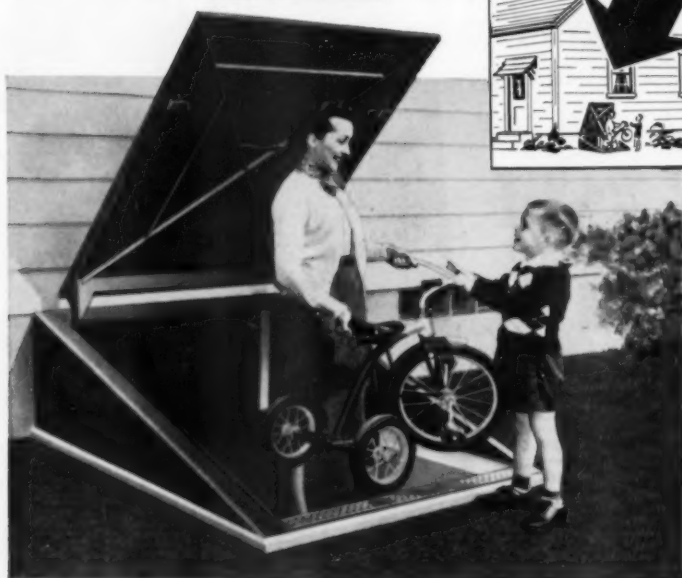
Division of Remington Arms Company, Inc.
7732 South Chicago Ave., Chicago 19, Illinois
Please send your latest Portable Power Tool Catalog.

Name _____

Address _____

City _____ Zone _____ State _____ BU-228

Home Buyers Want this BASEMENT ENTRY...



Let **SERVICE-WAY** add this sales appeal to your homes

Service-way is one of the most desirable convenience features you can include in the homes you build. Home-buyers like it because in no other way can they make *full* use of their basements. It provides direct access to the basement from outdoors for storage of garden tools, workshop and recreational equipment . . . shortens the trip from laundry to clothesline. . . saves tracking dirt through the house.

The wide single door swings up out of the way . . . locks in full open position. Provides an unobstructed opening for bulky objects.

Built to Last

Service-way is built of heavy gauge steel—electrically welded and reinforced to give a lifetime of service. Overlapping flanges on frame and door assure a snug fit—keep out rain, snow and wind. Slide bolts lock door securely from the inside. The Service-way comes fully assembled, ready to install.

Write for folder and specifications to:

Heatilator Inc., 5610 E. Brighton Ave.,
Syracuse 5, N.Y.



Simple Modern Lines.
Blends with any type of architecture, becomes an integral part of the home.



Finger-tip Operation.
Double-acting springs counter-balance the door in any position.

HEATILATOR®
SERVICE-WAY

Catalogs . . .

FORK LIFT TRUCKS covered rather completely in this indexed, pocket-sized guide to the Towmotor line. Sections cover specifications and construction features, operating techniques and safety tips. Plenty of illustrations too. Towmotor Corp., Attn. A. Roth, Dept. AB, 1226 E. 152 St., Cleveland, Ohio.

Circle No. 10068 on reply card, p. 154

EVERYTHING ELECTRICAL about these tools for construction, maintenance and trade crafts, pictured and detailed in a 44-page catalog from Thor. Pictured are each tool with its uses, as well as attachments, accessories and replacement parts. Thor Power Tool Co., Attn. J. A. Hill, Dept. AB, Aurora, Ill.

Circle No. 10069 on reply card, p. 154

HOT SPRAY PAINTING equipment for faster, easier, less expensive, more uniform paint job described in this eight-page catalog. Equipment illustrated with cutaway drawings; method fully explained and illustrated. De-Vilbiss Co., Dept. AB, Toledo 1, Ohio.

Circle No. 10070 on reply card, p. 154

DIESEL-POWERED lift trucks are described in new literature from Hyster Co. Lift trucks of 6,000 to 20,000 lb. capacity offered with photographs, specifications and detailed descriptions. From Hyster Co., Dept. AB, 2902 N.E. Clackamas St., Portland 8, Ore.

Circle No. 10071 on reply card, p. 154

CONCRETE EQUIPMENT is thoroughly covered in this 16 page catalog from Stow. Vibrators, grinders, trowels and screeds with all their detachable parts pictured and explained with detailed specifications. Stow Manufacturing Co., Dept. AB, 443 State St., Binghamton, N. Y.

Circle No. 10072 on reply card, p. 154

INDUSTRIAL TRACTORS and other equipment by John Deere completely illustrated in a 24-page catalog. Photos show wide assortment of building equipment in use plus descriptions and other information. From John Deere Industrial Div., Dept. AB, Moline, Ill.



THIS FOLDER HAS ALL THE FACTS ON NEW *Bostwick* CHAN-L-FORM METAL STUDS

- ✓ Construction Elements!
- ✓ Weight Per Square Yard!
- ✓ Flexibility!
- ✓ Five Different Sizes!
- ✓ Job Adjustment!
- ✓ What Sizes to Use!
- ✓ Ceiling Attachment and Various Bases!
- ✓ Framing of Openings!
- ✓ Architectural Specifications!

Now you can use metal studs easier and more economically than ever before. Get this folder with plenty of usable data. Four pages are cram packed with drawings, dimensions and sketches which clearly augment the text.

Ask your dealer for prices. Send for your Bostwick Chan-L-Form Stud Folder Now!



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THE BOSTWICK STEEL LATH COMPANY
103 HEATON AVE. • NILES, OHIO

ShoweRite® gives YOU THE WORLD'S BIGGEST



STANDARD SHOWERITE ENCLOSURE

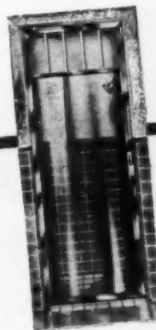
For 4 1/2' or 5' Tub, Suggested Retail Price **\$69.95**

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Sand blast designs available for Tub Enclosures in handsome Swan, Fish or Sea Horse Designs.

NEW FEATURES AT NO EXTRA COST

- ★ 2 Extruded Aluminum Towel Bars, One Inside... One Out
- ★ NEW Noise-Proof Door Slide CHANNEL
- ★ NYLON Rollers—Operate Easily & Quietly on Top Track
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SHOWER DOORS . . .

Completely assembled, hammered frosted glass for easy installation. Continuous piano hinge, drip moulding, with every unit. Easy-to-grip handle. For 24" to 26" openings. Suggested

Retail Price **\$39.95**

Model Illustrated with grill top **\$49.95**
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Your Profits Are Greater With Showe Rite.
Send for Complete Facts TODAY.



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Chicago 21, Illinois

Dept. AB-1056

Gentlemen: Please rush me information about Showe Rite products.

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Now it's
TWINPANE
by
TRIMVIEW

T.M.

T.M.

aluminum
sliding glass doors
for DUO-GLAZING

**makes "want-to-buys"
out of "hard-to-sells"!**

TWINPANE is a new aluminum sliding glass door, designed by Trimview for complete year around weather protection in all climates. Gives you a highly saleable luxury item of unsurpassed quality... at a surprisingly moderate cost. TWINPANE is another Trimview Package Plan product. Write today for brochure.

OUTSTANDING FEATURES

Takes standard sizes of Twindow and Thermopane glass
• All panels slide • Continuous double weatherstripping in jambs and rails • Smooth, quiet operation on sturdy phenolic rollers • Beautiful, satin alodized finish for high corrosion resistance • Sloped sill with effective run-offs prevents water infiltration • Handsome, combination aluminum and Lucite handle with Trimview's new flipper-type latch • Trimview rubber glazing blocks • Hollow, box-shape aluminum extruded section • New Trimview gentle insert neoprene glazing bead.

OPTIONAL EXTRAS

Cylinder type key lock • Adapter for single glazing 1/4" plate, 7/32" or 3/16" crystal • Nail-on trimfin for all types of inside or outside construction • Interior snap-on sill extensions • Exterior sill-flashing.



ATTRACTIVE STURDY HANDLE. Combination Lucite and beautiful, satin-finish aluminum with flipper-type latch.



CONTINUOUS DOUBLE WEATHERSTRIPPING. Both jambs and rails completely weather protected with Schlegel woolpile weatherstripping.

TAKE ADVANTAGE OF TRIMVIEW'S PACKAGE PLAN

More than a dozen fine, matching metal building products are available under Trimview's Package Plan... • You buy from one firm • You gain beauty and product uniformity • Your building schedules are expedited.

For information;
write, wire or phone.

TRIMVIEW

Metal components for glass

metal products

COVINA, CALIFORNIA

Catalogs . . .

POWER TROWELS showing radical improvements, especially the use of four blades to reduce vibration and lateral pull away from work and to "get on the concrete" sooner. Also by Muller is a line of Plaster and Mortar mixers, with "Mayari" abrasion-resistant steel. Muller Machinery Co., Dept. AB, P.O. Box 248, Metuchen, N.J.

Circle No. 10073 on reply card, p. 154

NEW 36 HP. self-propelled concrete saw has 4-cylinder air cooled engine to drive saw up to 25 ft. per minute; also "Tip-N-Turn" features allows instant maneuverability. Eveready BrikSaw Co., 1509 S. Michigan Blvd. Dept. AB, Chicago, Ill.

Circle No. 10074 on reply card, p. 154

TRANSITS, LEVELS and tripods for heavy and light duty work including new David White convertible level, No. 8006, for light construction market. Realist, Inc., Dept AB, Milwaukee.

Circle No. 10075 on reply card, p. 154

PERIMAHEAT baseboard convectors with hot water heat described, with typical installations and working methods, including damper and splitter devices. A. H. Slaasted, Young Radiator Co., Dept. AB, Racine, Wis.

Circle No. 10076 on reply card, p. 154

TRU-PERIMETER forced hot water baseboard with hydro-heat features, with full discussion of design package installations, pictures of components. J. C. Woodson, Warren Webster & Co., Dept AB, 17th & Federal Sts., Camden, N.J.

Circle No. 10077 on reply card, p. 154

HYDRO-PAC GAS hot water systems in \$19,000 split levels for \$750, with boiler, fin tubes, and circulator. Hydrotherm Inc., Dept. AB, Clinton Ave., Northvale, N.J.

Circle No. 10078 on reply card, p. 154

CHURCH LIGHTING for architects and builders is covered in an eight-page brochure by Pittsburgh Reflector. All phases of sanctuary and meeting room illumination presented. From Pittsburgh Reflector Co., Dept. AB, 484 Oliver Building, Pittsburgh 22, Pa.

Circle No. 10079 on reply card, p. 154

AMERICAN BUILDER

**THIS CONCRETE
WAS
FOR THE BIRDS—
BUT—**

IT CAN BE EASILY SMOOTHED OVER with *Camp's* LATEX CONCRETE TOPPING

ELIMINATES CHIPPING, ROUGHENING and CURING.
Apply Thin as $\frac{1}{8}$ " Or More Than 1", Whatever Thickness Needed.

52-lb drum includes 40 lbs. of powder mix, 1 gallon Latex liquid. Covers 100 sq. feet, 1/16" thick.

If your dealer cannot supply you, one unit delivered to you for \$10.50, 2 units \$18.00.

The CAMP COMPANY, Inc. 6958 So. State St., Dept. AB-106 Chicago 21, Illinois

OVER 21 YEARS OF CONTINUOUS SERVICE!

Now—from EVANS

A NEW TWO-WAY TOOL

It's a **Chalk Line**
It's a true **Plumb Line**
It's a real Professional Tool...

Priced Right
For You!

50 ft. - \$1.49
100 ft. - \$1.69

First time ever — this real mechanic's tool, at a low, low price! Engineered and Designed for Accuracy. It's Easy to Handle, Built for Long, Dependable Service!

Here's what you get:

Positive S-L-I-D-E action brake . . . separates from rewinding wheel. Automatically released on rewind.

Full rewind cylinder — with disappearing handle that lies flush.

Built in true Plumb Bob.

Easy refill — just a twist of the fingers, and the Plumb Bob tip opens for instant on-the-spot refills. Twist it closed . . . it's locked, leak-proof.

Streamlined design . . . made of tough lightweight aluminum.

Grip case with non-slip knurled edge . . . comfortable, sure . . . fits palm of hand perfectly.

Heavy die cast hook-ring — for one-man chalk lining . . . one-man true plumb action.

Unconditionally Guaranteed
See it — try it — Buy it at your dealer's today!

Evans RULE CO. Elizabeth, New Jersey

... still the leader for quality at a **LOW PRICE!**

Herman Nelson "THRIFTY"

Portable Air Heater

AAC

Ideal heater for Home Builders. Choose the portable heater that's designed especially for your needs . . . the new Herman Nelson "Thrifty"! Gives you low first cost and low operating cost — gives you the safety and dependability of "sealed flame" indirect firing. Oil-fired, uses only 0.7 to 1.25 gallons of fuel per hour. Electric motor powered. The "Thrifty" may be used indoors or out, and canvas ducts may be used to spot heat where wanted. Also has provision for venting, when desired. New simplified control system has only one fuel control valve, one starting switch. Your Herman Nelson dealer offers you liberal trade-ins on your old job-worn heaters!

- Better than ever — vastly improved design
- New all-weather overheat safety control
- 90-second starting cycle — even at sub-zero temperature
- Heat output can be easily regulated
- Fewer moving parts assure longer, trouble-free service

HERMAN NELSON
Best Known Name in PORTABLE HEATERS

Get Free Weather Forecast Service, Mail Coupon!

AMERICAN AIR FILTER COMPANY, INC.

Portable Products Dept. 59
Louisville 8, Kentucky

Rush complete literature on portable heaters. Also send me your monthly Weather Forecast Chart, at no cost or obligation to me.

NAME _____

COMPANY _____

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CITY _____ ZONE _____ STATE _____

IN WALL PANELS its the **SURFACE** that **SELLS!**

FINEWOOD

means
FINER SURFACES!

Quality construction is important—sure! But in wall panels, its the Surface that Sells! And FineWood means not only quality construction, but also the finest, most beautiful surfaces of any *Pre-Finished Hardwood Panels!* One wall or a room paneled with FineWood precedes all else in a perfect setting for future decor and furniture.

FINER CONSTRUCTION Even back and center veneers are specially selected to guarantee a permanent glue bond assuring a perfect face surface always.

SPECIAL PROCESS FINISH FineWood's exclusive finish contains basic ingredients that enhance the lustre and stability of the panels, making them resistant to moisture. In addition the natural color finish gives added beauty and prevents any change in color and texture.

GREATER VARIETY Nine select hardwoods—Birch, Maple, Mahogany, Red Oak, White Oak, Sycamore, Walnut, Cherry, and Limba. Other special woods available on request.



**ONLY GENUINE FINEWOOD
PANELS BEAR THIS SEAL
DULANEY PLYWOOD
CORPORATION
1401 SOUTH 12th ST.
LOUISVILLE 10, KENTUCKY**

Catalogs . . .

WINTER BUILDING with concrete masonry tackled in a four-page pamphlet from Portland Cement. Includes photos on protection of masonry, good heating equipment as well as a good deal of explanatory text on how to meet winter building problems. From Portland Cement Association, Dept. AB, 33 W. Grand Ave., Chicago 10, Ill.

Circle No. 10080 on reply card, p. 154

USE OF GRANITE for churches, commercial buildings, street curbing and in homes is illustrated in this 12-page booklet from Mount Airy. Complete data, photos, specifications included. From North Carolina Granite Corp., Dept. AB, Mount Airy, N. C.

Circle No. 10081 on reply card, p. 154

BETTER MORTAR with use of Brixment is suggested in this four-page catalog from Louisville Cement. Water-roofed masonry cement is described along with application details, durability data and specifications. Louisville-Cement Co., Attn. F. Lovell, Dept. AB, 2nd and Walnut Sts., Louisville, Ky.

Circle No. 10082 on reply card, p. 154

NEW FOR FLOORING is this four-color folder on Vina-Lux vinyl asbestos tile. Twenty shades of the flexible, resilient tiling along with several installation shots illustrated in the brochure. From Uvalde Rock Asphalt Co., Dept. AB, Frost Bank Building, San Antonio, Tex.

Circle No. 10083 on reply card, p. 154

FOR A SLIGHT CHARGE . . .

REFINISHING BASEMENTS in "How to Make Basements Dry, Beautiful and Livable". Subject of a 32-page catalog by Medusa Masonry Paints. In color and black and white, book details photos, diagrams, cut away drawings and specifications along with specific type of Masonry paint recommended for basement wall problems. Charge: 25 cents. From Medusa Masonry Paints, Attn. Robert Henry, Dept. AB, Court Square Building, Baltimore 2, Md.

HOUSEPOWER continued from p. 96

- ⊕ One convenience outlet for general use. For unfinished attic, provide junction box with connection to distribution panel.
- ⊕ Special purpose outlet for summer cooling fan is recommended. Outlet to be multiple-switch controlled.

□ BASEMENT

- Outlets to illuminate work areas and special equipment. Additional outlets to be installed at foot of stairs and for each 150 square feet of enclosed space. Lights may be pull-chain controlled except at foot of stairs. Pilot light for switch at head of stairs is desirable.
- ⊕ At least two convenience outlets are needed. Additional outlet required for work bench. Outlets also useful near furnace, laundry, hobby areas and for appliances such as space heater, dehumidifier, etc.
- ⊕ One special purpose outlet for furnace usually required. One for food freezer recommended.

□ TERRACES AND PATIOS

- At least one outlet, either on building wall or centrally located post—to be wall-switch controlled from inside house.
- ⊕ WP One weatherproof outlet located at least 18 inches above grade line—to be wall-switch controlled from inside house.

□ PORCHES AND BREEZEWAYS

- At least one outlet for every 75 square feet of floor area—to be wall-switch controlled.
- ⊕ One convenience outlet for each 15 feet of wall—to be weatherproof if exposed and split receptacle type. Wall-switch controlled.

□ GARAGE OR CARPORT

- At least one ceiling outlet, wall-switch controlled, for one or two-car garage. Exterior outlet, multiple-switch controlled, also desirable. Additional outlets if garage is to be used for other purposes. Also wall-switch controlled.
- ⊕ At least one convenience outlet for either one or two-car garage.

□ EXTERIOR ENTRANCES

- One or more outlets at front and service entrances. Steps leading to entrances and long approach walks should be lighted.
- ⊕ WP One weatherproof convenience outlet, wall-switch controlled from inside entrance, for decorative lighting.

"TAKES ME 10 MINUTES"



Yes Sir — just 10 minutes or less that's how little time it takes me to assemble and set a Bilco Door ready for pouring the concrete. And it's my best selling feature!

Cost? None at all. I save money by cutting down man hours during construction with that direct opening to the basement.

A must for
rumpus room
or work shop.
For satisfied
customers and
faster sales
install



Bilco®

AMERICA'S FINEST
BASEMENT DOOR

Sold by Lumber & Building Supply Dealers.

THE BILCO CO., DEPT. 370-B, NEW HAVEN, CONN.

Please send me complete information on the
BILCO DOOR, sizes, prices and dealers' names.

I build ☐ 10 or less ☐ 10-100 ☐ 100-500 houses

NAME

ADDRESS

CITY STATE

How Bertch coordinates his crew . . .

(Continued from page 93)

- Any tool broken or damaged beyond repair is recorded on charge sheets.

Step. 3. Materials charged in shop

Time charge is made for the use of shop facilities, machinery, sandpaper, glue and nails used in small quantities.

A separate charge sheet is used for each job each week.

The first person to work on a particular job initiates the form by filling in the name of the job; the week ending date; and his name, and number of hours worked.

The next person to perform shop work on that job uses the same sheet.

Part of every job is the replacement of tools and materials to their proper places.

The time required to perform this clean-up operation is charged to the applicable job.

Step. 4. How material is charged

Bertch claims that materials used and not recorded are given away.

All materials leaving the shop for a particular job are recorded on a 3 x 5 white card. Material returned to stock is recorded on a credit card. Each card indicates the name of the job and the date.

Step 5. Jobbing Work Orders

Time spent in thinking about a job and its requirements pays big dividends, according to Bertch.

This is the reasoning that brought these forms to life. Jobbing Work Orders are used for small jobs and for dispatches to do particular items on larger jobs.

This form lists work to do; materials needed; equipment list; job finished—if not, what is left to do;

time spent on job.

To double-check materials and to make sure the proper ones go to each job, Bertch posts a Loading Reminder Sheet. This serves as a guide for the men by listing all equipment available.

While some of the items involving charges for materials, equipment and shop time may not seem to apply to most of Bertch's business (which is on a fixed price basis) he claims he trains his men to report on these items for two reasons: first, if they have not formed the habit they will not use the forms on the occasional cost-plus job which he takes; and most important, Bertch finds it advisable to keep a cost record on each job.

He wants to be sure he makes money on every job. If he doesn't he wants to know why. Has his estimate been too low? Were there unusual circumstances which were not anticipated? Did the work progress more slowly than he figured?

Knowing the answers to these questions helps him to make estimates on other similar jobs.

HOUSE SALES *Start* AT THE CURB!



GRAHAM Architecturally-Correct Garage Doors Add "Buy-Appeal" To Your Homes..Without Adding Cost!

A builder's biggest and best advertisement is a beautiful front elevation. Don't spoil it with an ordinary-looking, "warehouse-type" garage door. Catch the cruising shopper's eye with dramatically styled GRAHAM sectional doors. Unlimited choice of house-flattering designs. Give your look-alike homes that one-of-a-kind appearance. Add glamour without adding cost. Specify GRAHAM "custom-design" garage doors . . . they're customer catchers!

Architects and Builders: Write today for "New Ideas" brochure. Illustrations show importance of garage doors in today's architecture.

Graham Garage Doors

6901 Carnegie Avenue
Cleveland 3, Ohio

Division of
GRAHAM INDUSTRIES, INC.

263 N. Washington Dr.
St. Armands Key, Sarasota, Fla.

"YOU GET SO MUCH MORE WITH A GRAHAM DOOR!"

ATTENTION!
GARAGE DOOR
SPECIALISTS

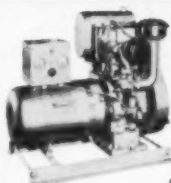
Distributorships available in some areas. Add GRAHAM flush doors to your present line of panel doors. Or change to the complete GRAHAM line of panel and flush doors and door operators. Write for full information TODAY!

PIONEER

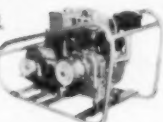
GEN-E-MOTOR

PORTABLE POWER

When and Where You Need It!



MODEL WA 30
for continuous
duty, 3800 Watts



MODEL SS 3990
for easy portability,
2400 Watts

● Have reliable electric power available at any location. Pioneer Generators can furnish power and lights to keep construction crews on the job. Hi-wattage, lightweight models can be hand carried . . . heavy duty slow-speed skid mounted plants for continuous operation. Over 40 models from 500 Watt to 12 KW continuous duty units.



Write today for FREE catalog

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5852 West Dickens Ave., Chicago 39, Ill.

Generators • Electric Generating Plants
Power Lawn Mowers • Electric Portable Power Tools

CLASSIFIED ADVERTISING

The Market Place for buying and selling used merchandise, help wanted, positions wanted, and other classified listings.

Rates—\$7.50 minimum for 40 words or less. 15c for each additional word.

Display Classified—\$35.00 per inch. Reverse plates not accepted. No illustrations. No agency commission or cash discount. One column only—2 1/4 inches wide. 2 inches maximum. Signature cuts and trade names allowed.

MANUFACTURERS REPRESENTATIVE WANTED

Ten-year-old Michigan concern manufacturing all-steel folding closet doors and steel type garage doors is seeking representation in North Central and North East states. Direct inquiries to Stylecraft, Inc., Roseville, Michigan.

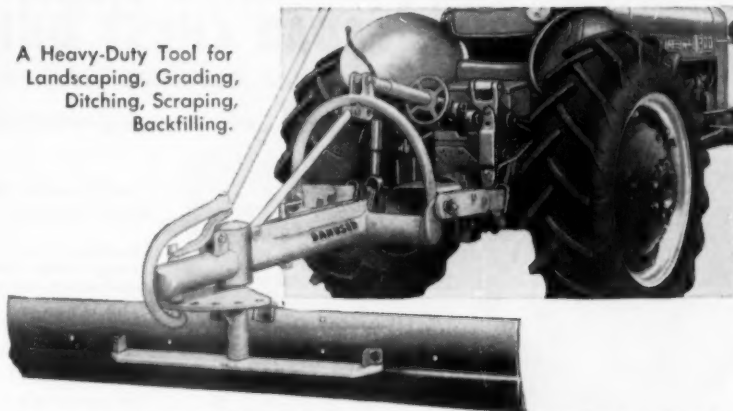
FOR SALE—Lumber and building material facilities (concrete block store building, two-story warehouse and 26' X 120' lumbershed) in rich farming area in central Illinois. Lumber yard potential \$100,000.00 up depending on operator. Sell facilities for \$12,500.00—owner will finance. Write Box #261, American Builder, 30 Church St., New York 7, N.Y.

INVENTION FOR SALE

Patent pending on new labor saving anchor bolt. Serve to find huge market. Will sell for reasonable cash allowance plus royalty. For particulars write E. R. MacLean, Carpenter Road, Pine City, N.Y.

Low-Cost Blade Makes Your Light Tractor an Efficient Earth Mover!

A Heavy-Duty Tool for
Landscaping, Grading,
Ditching, Scraping,
Backfilling.



One man can operate the DANUSER BLADE by himself and make adjustments without leaving the tractor seat. Blade uses the tractor three-point suspension principle, with adapter kits available for older models. It is raised and lowered by the tractor's hydraulic system, and turns all the way around so you can push with it.

Rugged construction throughout. Built of reinforced welded structural steel and heavy tubular members. Abrasion-resistant moldboard

with replaceable, standard grader cutting edge. Moldboard mounting is supported on two oversize tapered bearings to maintain stability. It shifts 8 inches right or left of center for cutting beyond tractor wheel line.

Danuser built the original rear-mounted blade, and is still producing the finest tool of its kind on the market. Thousands are in daily use throughout the world. Tested and approved by tractor manufacturers.

"Quality Since 1910"

DANUSER MACHINE CO.

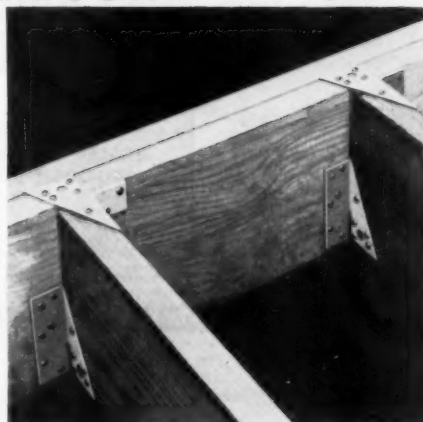
534-45 East 3rd Street

Fulton, Missouri

the most versatile,
practical and economical **JOIST HANGER**
ever developed—

TECO
Trip-L-Grip
FRAMING
ANCHORS

Add strength and
rigidity. Eliminate
heavy strap hangers,
notching and shimming.



One size fits joists from 2" x 4" to 2" x 12"

TIMBER ENGINEERING COMPANY

1319 18th Street, N. W., Washington, 6 D. C.

AB-566

Please send FREE booklet, "Aids for Better Homes and Other Wood Construction," showing details on how and where to use Teco Trip-L-Grip Framing Anchors for stronger wood framing.

Name.....

Firm.....

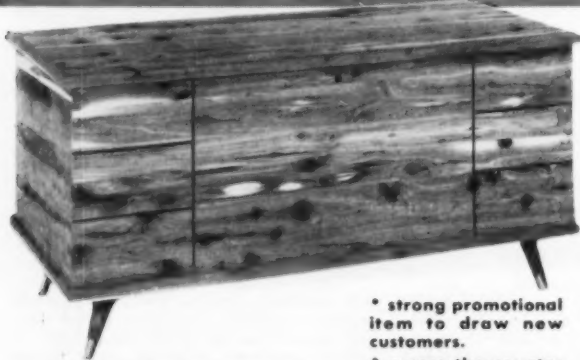
Street.....

City, Zone, State.....

Another big-selling cedar product from Giles & Kendall
for do-it-yourself customers!

KNOCKDOWN CEDAR CHEST UNITS

made of genuine Tennessee aromatic red cedar



This is a beautiful, completely milled out and sanded cedar chest from the heart of genuine Tennessee aromatic red cedar. Carefully selected for fine appearance and sturdiness. It is solid 1/2" cedar, with 5-ply panel top that will not warp or crack. Each unit is complete with all hardware, push button lock, brass ferrules. Size: 20" x 20" x 47"

* strong promotional item to draw new customers.

* across-the-counter item, packaged to take home.

* nationally advertised in Living for Young Homemakers.

You'll make the sales because...

* customers want additional storage space that is moth-proof and handsome.

* this is genuine Tennessee aromatic red cedar.

* customer saves about \$25.00 per chest.

* anyone from 12 to 70 is a potential customer.

* only a screw driver is needed.

* good gift item (estimated 50% of sales are for gifts).

* sells steadily the year 'round.

CEDARCO CLOSET LINING

Another Giles & Kendall favorite with the handyman. Manufactured from the heart of red cedar, already tongue-and-grooved with matched ends, available in different lengths and widths. Goes on over exposed wall studs, plaster, wallboard. Free 8-page illustrated guide booklets ready for your imprint. Free warranty against moth damage available with each completed job.

Wholesale only—for name of nearest distributor, write:

GILES & KENDALL COMPANY

Box "D" Huntsville, Alabama

FINGERTIP DRAWER OPERATION

For Only **26¢/10¢**
PER DRAWER

(Cost of One Roll-ez "A" Set in Bulk to Cabinet and Fixture Manufacturers)



Write for Free Sample Roll-ez "A" Set & Literature Showing Complete Line.

JUNIOR-PRO PRODUCTS CO., 118 E. Marceau St., St. Louis 11, Mo.

Roll-ez Trade Mark ROLLER BEARINGS FOR WOODEN DRAWERS

Quick, easy to install. Roll-ez performance compares with high priced slides—yet you figure the cost in fractions! Made with perfectly molded NYLON rollers mounted on steel frames, they eliminate friction of wood-against-wood and keep drawers in alignment. Complaints, "call-backs" due to drawers sticking and binding are a thing of the past!

Save Time and Money... Avoid Mistakes... Use

SIMPLIFIED CARPENTRY ESTIMATING

HERE IS EVERYTHING YOU NEED to know to "take off" a bill of materials from set of plans and specifications for a frame house. Saves you time figuring jobs, protects you against oversights or mistakes that waste materials and cost money. Nothing complicated—just use simple arithmetic to do house carpentry estimating with this easy-to-use ready reference handbook.

CONTENTS: Estimating Fundamentals. Foundation Material. Framing. Exterior Finish. Hardware. Building Information. Estimating Short Cuts. Labor Hours per Unit of Work. Carpentry Mensuration. Mathematical Reference Tables. Stair Estimating. How to Plan a House.

1950. 5th Ed. 304 p. 123 illus. 60 tables. 5x8. \$3.75

Goldblatt dry-wall applicators: new corner taping tool

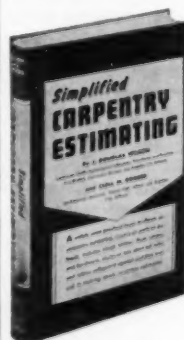
\$4.95 Introductory Offer! (postage paid)

FREE TOOL CATALOG — 1,056 tools for rowel trades. 100-page illustrated book. 1956 edition. Send name on postcard.



Goldblatt exclusive. Gives fast, clean inside corner taping with great ease. Highly flexible 4-in. sides of one-piece stainless steel. Lightweight aluminum mounting with comfortable wooden handle. Forms perfect corners. Eliminates chance of tape snagging. Materials, workmanship, unconditionally guaranteed. Check, money order, C.O.D. Order No. DWCT.

GOLDBLATT TOOL COMPANY, Dept. C-10
1912 Walnut, Kansas City 8, Mo.



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Please send me a copy of *Simplified Carpentry Estimating*. If after 5 days trial I am not fully satisfied, I'll return it and owe nothing. Otherwise I'll keep the book and send \$3.75 plus a few cents for postage and handling in full payment.

Name

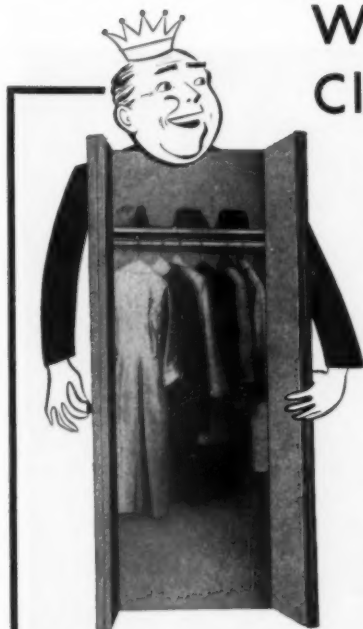
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City State

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Women like the attractive appearance—the silent operation—the full open closet—the space-saving swing—the general de luxe atmosphere of Kloset King doors.

You'll like the fast, easy installation—the long life with no call backs.

A Kloset King All Steel Door Unit is a "plus value" you can give at practically no extra cost to you.

Write today for full colored circular and name of nearest dealer.

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No. 5 BOSTROM
Convertible Level
Detachable Compass when desired

Have been the most economical precision leveling instruments on the market.

Used and endorsed by contractors and builders everywhere. Sold on guarantee of satisfaction or money back.

Carried in stock by distributors from coast to coast. Write today

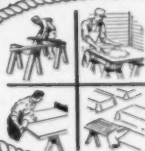
for literature, prices, and name of our distributor near you.



No. 4 BOSTROM
Contractors' Level

Bostrom - Brady Mfg. Co.
535 Stonewall St., S. W. ATLANTA, GA.

With 2x4s and
THESE BRACKETS
you can make a
SAWHORSE in a Jiffy



There are scores of uses for a sawhorse... now it is easy to have one whenever you need it

Set up and knocked down instantly without nails, screws or bolts. Easy to move from job to job, and takes little storage space when not in use.

Jiffy Sawhorse Brackets are ALL-WELDED... stronger than any 2x4s you can use for crossbar and legs.

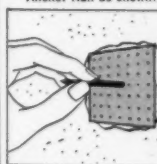
Ask your hardware or building supply dealer for Jiffy Sawhorse Brackets. If he cannot supply you, write us direct.

**GRAND HAVEN
STAMPED PRODUCTS CO.**
Grand Haven, Mich.

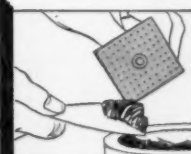


SIMPLE STEPS for faster, lower cost finishing of concrete or masonry walls with wallboard or wood.

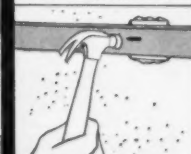
1 Dip small portion of adhesive from can with putty knife and spread on base of Gemco Anchor Nail as shown.



3 Drive Gemco Anchor Nails through furring strips then bend protruding nails over to secure strips.



2 Push Gemco Anchor Nail in place with sliding, twisting motion; remove briefly, then replace. Allow to dry.



4 Nail wallboard, plywood or wood panels to furring strips... and the job is done. It's just that simple!

HERE IS ALL YOU NEED

Gemco Anchor Nails have ample strength to hold sidewall loads in place securely. Easy to install. Anchoring is sure, safe, permanent. Great time- and money-savers!



Tuff-Bond General Purpose Adhesive bonds the anchor nails securely to concrete or masonry; super-strength; waterproof. Also Tuff-Bond Quik-Set for fast bonding to smooth surfaces.

GOODLOE E. MOORE, Incorporated,
Danville 36, Illinois
Please send details and prices on Gemco Anchor Nails and Tuff-Bond Adhesives.

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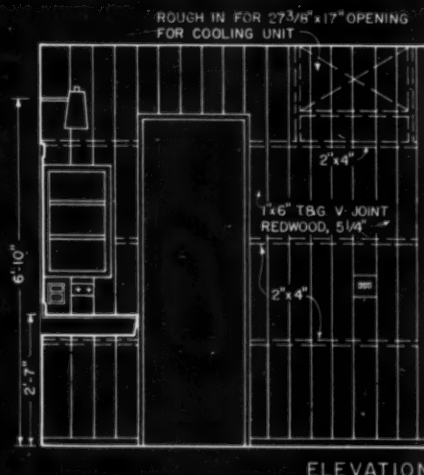
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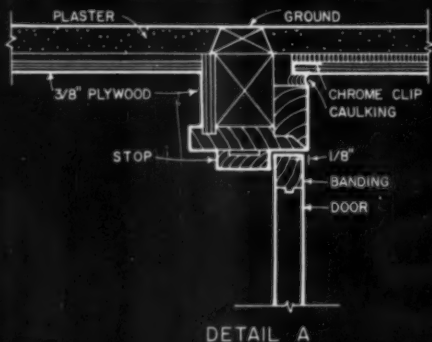
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Dressing room space for a desert

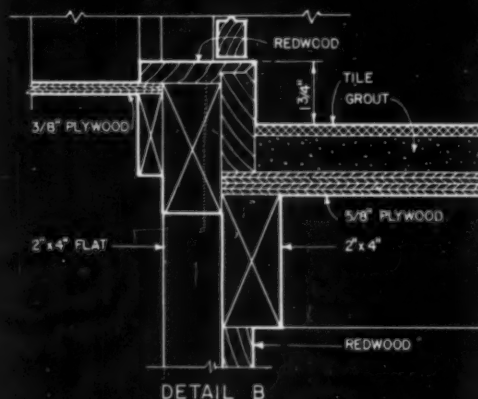
AMERICAN BUILDER'S BETTER DETAIL PLATE... NO. D-143: DESERT MOTEL DRESSING ROOM



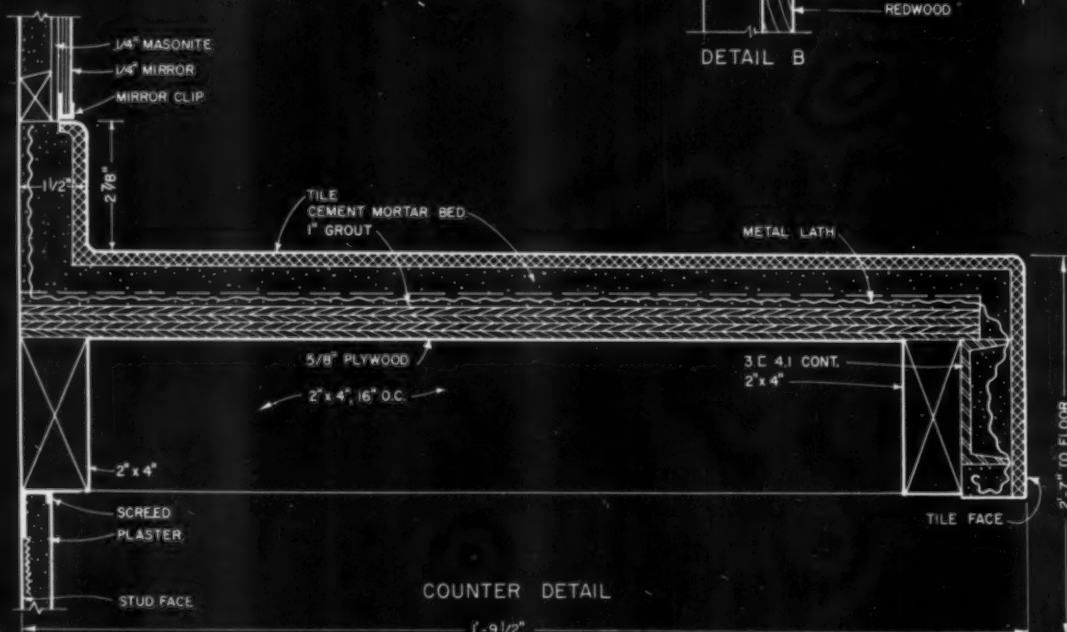
ELEVATION



DETAIL A

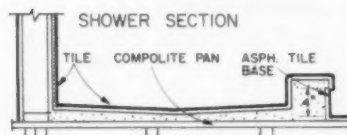
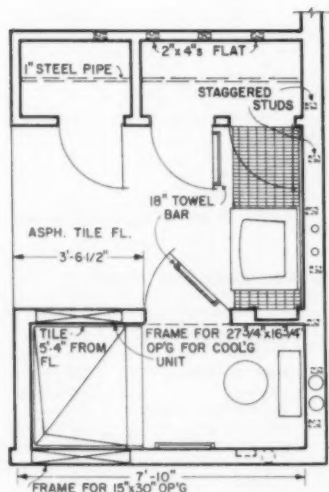


DETAIL B



COUNTER DETAIL

motel



LAYOUT OF TYPICAL dressing room unit and section through shower stall. Note use of staggered studs and insulation.

A ceramic-tiled countertop with built-in lavatory, ceramic-tiled shower stall and oversized closet are features of this 8 x 10 dressing area in a corner of a typical room unit of the Oja Motel, Apple Valley, Calif. Details A and B show how the architect uses a mitered butt joint for casings and trim, along with banded Novoply doors. V-joint redwood is used throughout, with miters at the corners of closet and shower stall.

Steel channel is used to give added support to the facing tile of the countertop. Note blocking of metal lath above plywood, which should be exterior grade and waterproof for best results.

Detail B is a section through the countertop showing 2 x 4 base framing. Mirror above is backed with Masonite for added stiffness.

Designed by:

Robert H. Thomas, A. I. A.
Builder: Bennington & Smith
Apple Valley, Calif.



THE *Suburbanite* LINCOLN, NEBRASKA
ARCHITECT: UNTHANK & UNTHANK

ROTO-GLO®

MERCHANDISING HELPS SELL 100 HOMES IN 60 DAYS

Like all builders, Strauss Bros., of Lincoln, Nebraska, aim for quick sales. Every element of their homes is selected not only for quality, but for salability. That's why Strauss Bros. chose ROTO-GLO. Pass & Seymour's top engineering and design have made ROTO-GLO durable, smooth operating and smart appearing, while cutting installation costs. ROTO-GLO national advertising in the "shelter" magazines has made it the most talked about switch among homebuyers, and it costs *only pennies more*.

To cash in on ROTO-GLO's popularity, Strauss Bros. made full use of Pass & Seymour's merchandising aids to present ROTO-GLO switches as a quality feature of their homes. A colorful mobile was displayed at the entrance of each home. Display cards pointed up the national advertising and tied it in with the model home. An eye-catching tag, suspended from every ROTO-GLO switch, told the story of exclusive roto-action, glowing knob and quiet operation.



You, too, should take advantage of Pass & Seymour's ROTO-GLO merchandising. For your **FREE** supply of new mobiles, display cards, switch tags and newspaper advertising mats, see your wholesaler or write direct to Department AB-5.





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Syracuse 9, New York

71 Murray St., New York 7, N. Y. 1229 W. Washington Blvd., Chicago 7, Ill.
In Canada: Renfrew Elec. & Refrig. Co., Ltd., Renfrew, Ontario

TRY ONE ON YOUR NEXT MODEL HOME



READY MADE FOR PROFITS

NEW PACKAGED CUPOLA KIT

Large size Cupola, (30" high, roof 23" sq., base 19" sq.) complete ready to assemble. Couldn't be scratch built for less than \$75 — yet your cost is less than 1/4 of this figure. Can be used for ornamentation or as a roof ventilator.

IMPROVES
APPEARANCE OF
OLD AND NEW
HOMES

Write for catalog
sheet and prices

Wrought Iron Weathercoames to go with Cupola.
Retail \$7.95 to \$24.95, less regular mark-up.



WILLIAMSBURG BLACKSMITHS

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SAVE TIME! SAVE MONEY! with

INSTO-HOT®

SALAMANDERS and INFRA-RED HEATERS



No. 1405 Cylinder-Mounted Salamander

For quick, clean, portable heat choose the INSTO-HOT Heater best suited for your job.

Eliminate dirt — soot — noxious fumes forever with instant lighting LP Gas heat. Eliminate handling of flammable liquids on the job! Accepted and approved by thousands of users.

Many models available.

For information on the complete line of INSTO-HOT SALAMANDERS and INFRA-RED HEATERS see your dealer or mail coupon today.

INSTO-GAS CORPORATION, Detroit 7, Michigan

AB

Send facts on Insto-Hot Salamanders and Infra-Red Heaters.

NAME _____

ADDRESS _____

CONTINUED FROM P. 107

ESTIMATING GUIDE

House	Frame	Ranch
Area	—	2339 sq. ft.
Cube	—	18,712 sq. ft.

CONCRETE WORK

Location	Actual*
Foundation Wall & Lip	595 cu. ft.
House Slab 4"	780 cu. ft.
Chimney Footing	68 cu. ft.
Pier Footings	19 cu. ft.
	1462 cu. ft. or 1535 cu. ft. or 57 cu. yds.

*Add 5% for waste

CONCRETE ACCESSORIES AND MASONRY

Location	Description	Amount
Slab	6" x 6" 10/10 mesh	595 sq. ft.
Reinforced Bars	1/2" Diam.	476 Lin. ft.
Vapor Barrier	Rigid Insulation	238 Lin. ft.
Anchor Bolts	12" long	30 pieces
Chimney Stack	Concrete Block & Brick	500 cu. ft.
Flue Lining	15" Diam. T.C.	27 Lin. ft.
Flue Lining	8" x 8" T.C.	40 Lin. ft.
Planter	Brick	70 sq. ft.
Stone Veneer	4" Stone	230 sq. ft.

FRAMING SCHEDULE

Location	Size	Piece	Lin. Ft.	B.F.M.
Studs	4 x 4	40/8	320	427
Plates (3)	2 x 4	—	1710	1140
Bathroom Plates (3)	2 x 6	—	60	60
Bathroom Studs	2 x 6	20/8	160	160
Living Room Girder (2)	2 x 14	—	56	132
Garage Beam (2)	2 x 10	2/20	40	67
Ridge Board (2)	2 x 14	—	44	103
Posts	4 x 4	2/8	16	22
Ridge Beam (2)	2 x 14	2/12	24	56
Rafters	2 x 6	49/16	784	784
Knee Wall Studs & Jacks	2 x 4	100/8	800	533
Rafters	2 x 6	49/20	980	980
Rafters	2 x 6	60/16	960	960
Continuous Wall Beam (2)	2 x 8	—	500	667
Interior Studs	2 x 4	400/8	3200	2133

SHEATHING, SIDING, INSULATION ETC.

Location	Description	Actual*
Siding	Asbestos Board	2120 sq. ft.
Battens	1" x 2" Vertical	2500 lin. ft.
Floor	Asphalt Tile	1939 sq. ft.
Roofing	3/4" Plywood Sheathing	2160 sq. ft.
Roofing	210# Asphalt	2160 sq. ft.
Roof Insulation	2" Batts	2000 sq. ft.
Wall Insulation	2" Batts	1400 sq. ft.
Gutters	Galvanized iron	166 lin. ft.
Leaders	Galvanized iron	60 lin. ft.
Siding	Joint Red Wood	50 sq. ft.

*Add 10% for waste.

When Roofing and sheathing is laid diagonally a waste factor of 30% should be used; when it is laid horizontally 20% may be used.

MILLWORK

Ext. Trim		
Location	Description	Amount
Fascia	1 x 8 Redwood	250 Lin. ft.
Soffit	1/2 Gypsum	272 Sq. ft.
Frieze Molding	1 x 2	140 Lin. ft.
Int. Trim		
Location	Description	Amount
Cl. Pole	1 1/2" Diam.	30 Lin. ft.
Pole Sockets	Pair	6 Pair
Cleats	1 x 3	35 Lin. ft.
Hook Strip	1 x 4	58 Lin. ft.
Shelving	1 x 12	45 Lin. ft.
Buss	1 x 4	500 Lin. ft.

DOOR SCHEDULE

Exterior Doors Size	Description	Amount
8'0" x 7'0" x 1 3/4"	Overhead 3 panel	2
3'0" x 6'8" x 1 3/4"	Flush S.C.	1
2'8" x 6'8" x 1 3/4"	Louvered Door	1
2'8" x 6'8" x 1 3/4"	Flush S.C.	1
Interior Doors	Description	Amount
2'8" x 6'8" x 1 3/4"	Flush H.C.	1
2'6" x 6'8" x 1 3/4"	Flush H.C.	10
2'4" x 6'8" x 1 3/4"	Flush H.C.	2
1'6" x 6'8" x 1 3/4"	Flush H.C.	1
Sliding Doors		
2'0" x 6'8"	—	8
		<u>27</u>

Note: All door frames, trim saddles, casing etc. are to be ordered from the door schedule.

WINDOW SCHEDULE

Size	Description	Amount
5'0" x 2'6"	Sliding	14
2'0" x 2'6"	Sliding	7
3'6" x 2'6"	Sliding	1
5'0" x 8'0"	Triangle Fix	2
5'0" x 8'0"	Sliding	1
5'0" x 2'6"	Triangle Fix	2
	Total	<u>27</u>

Windows listed are approximate sizes to be decided upon by the builder to conform with standard manufactured sizes.

Aprons	1 x 6	130 Lin. ft.
Stools	1 x 8	130 Lin. ft.

**SOLVES PERMANENT,
LOW COST COOLING
BAR-BROOK**

Breezebuilder
WALL FANS 22", 30" Sizes

May be installed in any outside wall. Safety grille inside. Weathertight shutter outside. Heavy duty motor; 1, 2 speed, 2 speed reversible. Plug or direct wiring. Cert. ratings.

Ask local distributor or write for catalog.

BAR-BROOK MFG. CO., INC.

6135 Linwood Ave., Shreveport, La.



COST CUTTER
LION UNIVERSAL TRIMMER

Accurate, razor-like cut any way of grain. Quick adjustments to 45 degrees or 90 degrees. Mitters, bevels, squares, chamfers—hundreds of uses! A time saver on every job.

WRITE FOR FULL INFORMATION

POOTATUCK CORP.

50 Old Stratford Rd.
Shelton, Conn.



*For paneling, for doors,
for all fine woodwork
choose*

Ponderosa Pine

**one of the dependable woods from
the Western Pine mills**

Ponderosa Pine is especially well suited for paneling, woodwork, windows, doors, furniture and other manufactured items.

It is straight-grained, takes any finish beautifully, and comes in 3 select, 5 common, 4 dimension, 4 factory grades. It can be ordered in straight or mixed cars, along with other fine-quality woods from the Western Pine mills.



Get the facts to help you sell PONDEROSA PINE. Write for FREE illustrated booklet to WESTERN PINE ASSOCIATION, Yeon Bldg., Portland 4, Oregon.

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Idaho White Pine

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Sugar Pine

and these woods from
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WHITE FIR · INCENSE CEDAR
RED CEDAR · DOUGLAS FIR
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are manufactured to high standards of seasoning, grading, measurement

**TODAY'S WESTERN PINE TREE FARMING
GUARANTEES LUMBER TOMORROW**

The Month Ahead

STRAIGHT DOPE

One of the best ways to take all this **HOUSEPOWER** business to heart is to (1) use all the national promotion available and (2) come up with some clever ideas of your own. For example: hand out small capsules labeled **DOPE**, inside of which are strips of paper rolled up with a complete list of circuits, fuses, etc.

BACK TO BUILDER'S SCHOOL

The Small Homes Council of the University of Illinois will hold its Fourth Annual Advanced School for Home Builders on November 5-14. If you've got \$130 and don't know a better place to put it, then we urge you to send it to Urbana. But do it early, as registrations are always filled.

BELL RINGER

If you're lining up remodeling jobs at this time, take a look at Bulldog Electric's new strip-mounted outlets. You don't have to tear into plaster, since strip is surface mounted. And you can adjust your outlets to any position. It looks like a good idea.

LAST CHANCE

By the time November comes out, our Best Model Homes contest will have been judged and finished. This is our last chance to beat you over the head and say, get your entries in now! We have to have them by October fifteenth.

Up periscope!

The shouting is dying down from National Home Week, (by all odds the biggest and best ever), and now is the time for you to get your head above water for a few minutes and see what all the fuss was about.

Naturally you couldn't run around the whole country and see what the various Parades of Homes were pushing as their best guesses as to what the 1957 buyer is going to demand in his house. But American Builder can and did cover the U. S. from coast to coast, and what they found were the hottest trends for the coming year is the big story in the November issue.

In addition to reporting on the National Home Week houses, we'll also have features on both new construction and remodeling showing how alert builders are planning for next year. And there'll be a story on a new design trend from California that's coming East fast.

Put down that hammer and think

With the end of the year coming up, and with it the annual cloud of government reports forecasting the state of economic affairs for 1957, it might be a good idea for you to sit back for a moment and remember that besides being a builder, you're a business man too. Have you taken the time to study the government money reports? They'll have a powerful effect on your mortgage situation in 1957, and every indication is that money is going to get even tighter than it is now. Have you seen the government estimates on how many private homes will be built in 1957? They might show that your plans as they now stand are unduly pessimistic. Or maybe optimistic.

Remodelers can get snowed in too

We've talked about the new house builder and his cold weather problems in the feature on "Winter Building" in this issue; don't forget, though, that snow and ice can hurt the remodeler just as much. In most parts of the country, outdoor work will be pretty regular until December; after that you just can't be sure. Might be a good idea to promote as much outside work as possible right now, and perhaps offer some sort of price incentive for indoor remodeling through the winter months.

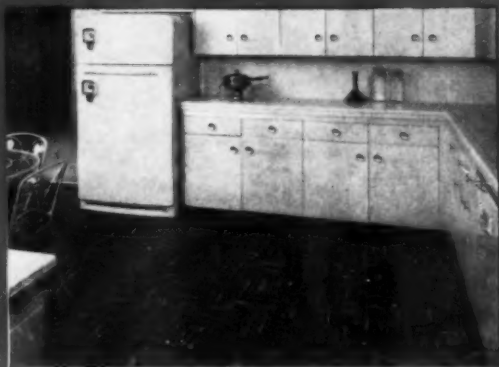
MATICO selected for another important project

MATICO

TILE FLOORING



Flooring Contractor—Valley Floor Coverings, Whittier, Ca



Colorful MATICO Tile Flooring was selected for these modern Sun Gold homes. Here are two kitchen-dinette arrangements featuring easy-to-clean MATICO tile.



featured in exclusive

SUN GOLD HOMES,

Whittier, Calif.

More and more builders are finding that MATICO Tile Flooring meets their needs as the ideal flooring.

Low in cost, MATICO saves on installation because it always lays flat . . . is precision cut to butt tightly, immediately. But MATICO has other important advantages, too. It's a smart, colorful flooring that helps sell the home . . . attracts the eye of the prospective home buyer . . . harmonizes with any decor or style of architecture . . . can be installed on, above or below grade. And what housewife could resist the wonderful cleaning ease that MATICO offers!

Yes, you'll find MATICO first choice in every type of installation from homes to factories and institutions. Be sure to consider MATICO Tile flooring for your next project.

*MATICO . . .
the floor
that helps you
sell the home*

MASTIC TILE CORPORATION OF AMERICA

Houston, Tex. • Joliet, Ill. • Long Beach, Calif. • Newburgh, N. Y.

Rubber Tile • Vinyl Tile • Asphalt Tile • Confetti • Aristoflex • Parquetry • Maticork • Cork Tile • Plastic Wall Tile



National

BUILDERS' HARDWARE

In the new Visual Display Package



Light "T" Hinges



No. 699 Cupboard



No. 214 Pull



No. 508 Light Narrow Butts



No. 834 Barrel Bolt



Light Strap Hinges



No. 833 Barrel Bolt



No. 80 Screen Hanger



No. 218 Pull



Cabinet Hinge



No. 485 Ornamental Hinge

These attractive merchandise containers (polyethylene bags) have a separate compartment for the screws to protect the plated finishes on the hardware. Hang them up on your display counters and you will note how eye-appealing they are to your customers who can see at a glance all component parts for an easy and accurate installation.

All National hardware is still packed in the conventional manner but for those who desire these new VISUAL packs we offer all of the items illustrated here. Other items will soon be available in this new form of packaging which is supplied to our dealers without increase in price.

Our 55th Anniversary

We celebrate another added productive year made possible through the confidence expressed in our products by our dealers nationwide.

National

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